April

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TWO DOLLARS

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At least twice a day,

Berry's anti-sway feature

protects your reputation as a quality builder

Along with features like climate-proof weather seal • adjustable track hangers • diamond grid construction • safety lock tracks • rugged lifting arm • Paintloksteel that won't swell, shrink, check, peel.

And only the Berry steel garage door offers you all these features to maintain the name you've established. At least twice a day, when the customer opens the door and when he closes it, your high standards are revealed. The anti-sway feature, for instance, eliminates binding at the jambs. It assures that the door will open—at a nudge, every time, in all kinds of weather. And Berry's quality cuts down those costly and annoying callbacks. What's more, the world's largest manufacturer of residential garage doors makes the price right and installation easy. Choose from one-piece and sectional models. Window lites optional. See your distributor or write: Berry Door Corp., 2400 E. Lincoln, Birmingham, Michigan. In Canada: Berry Door Co., Limited Wingham, Ontario.



..full five-year guarantee

You Save TWICE with these NuTone Products for ...

Apartments and Remodeling

* Low Initial Cost * Low Installation Cost



NUTONE NON-DUCT RANGE HOOD-FAN

If your home, or apartment has no provision for ducted kitchen ventilation, this is for you . . It's NuTone's Non-Ducted Hood-Fan . . the sensational #3400 Series . . . a new, self-contained ventilating system that attaches easily under the range cabinet or to the wall in only a matter of minutes! 30"-36"-42" sizes in Antique Copper, Stainless Steel, Silver or Copper Anodized, White or Copper Enamel. Priced as low as \$84.95 List.

NUTONE NON-ELECTRIC DOOR CHIME & VIEWER

NEW Non-Electric Door Chime with Optical Lens Viewer. Wide angle lens offers clear view of entire doorway area. Complete privacy for viewer. Gold Anodized window nameplate. List Price \$7.95. Chime also available without viewer \$4.95 List.



NUTONE WALL HEATER & FAN

Heat PLUS Ventilation combined in one fixture. Saves installation cost, avoids double cutouts and double wiring. The Heater and Fan operate separately or at SAME TIME. Connects to standard house wire. \$56.95 list . . . Other Heaters \$18.95 and up.





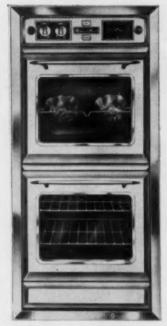
New NuTone Catalogs

WRITE TO NUTONE, INC. Dept. A, Cincinnati 27, Ohio

--- See Next Page



Medern Meid



MODERN MAID double oven gas built-in with the high speed "Infra Ray" ceramic burner gives your homes an extra sales appeal that is not available in any other builtin oven.



"Super Thin" range tops allow an extra three feet of drawer space per kitchen.

MAIL TODAY

TENNESSEE STOVE WORKS

CHATTANOOGA 1, TENNESSEE

ONE OF THE LEADING STOVE MANUFACTURERS SINCE 1904

... MEANS MORE MONEY TO YOU BECAUSE MODERN MAID HELPS SELL YOUR HOMES FASTER. There is no need to switch from one manufacturer to another just to find the proper built-in for your homes because MODERN MAID offers a complete line of built-ins. Here are just three examples:



SAVE approximately \$117.50

per kitchen with a new one piece built-in. The "Town House 24" slides right in the space normally occupied by a 24" base cabinet. Your choice of gas or electric, brushed chrome or colors.

MODERN MAID	SAS AND ELECTRIC BUILT-INS AND AUT
MATIC DISHWASH	ERS IN MATCHING COLORS.
NAME	
ADDRESS	
WADAKESS -	
CITY	STATE

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New homes can now be protected against termites for 10 years or more with aldrin

-and there's no significant increase in building costs.

ALDRIN has proved to be one of the most effective termite controls in use today.

Aldrin schedules easily into construction procedures and allows many units to be treated in each working day.

Aldrin is listed in the minimum property standards of F.H.A. for termite control on all types of new construction—slab, basement and crawl space. The U. S. Forest Service, the Armed Forces and many other Federal, State and local agencies responsible for building construction have listed aldrin for use as a soil poison.

Aldrin is long lasting—proved 100% effective for more than 10 years. Because of this, you can use and specify aldrin chemical termite barriers with complete confidence.

Shell Chemical Company, Agricultural Chemicals Division, 110 West 51st Street, New York 20, N. Y.

Shell Chemical Company



Agricultural Chemicals Division

OPPORTUNITY

Are we building too many houses?

It would be a great mistake to let the charge that this country is overbuilt in housing go unchallenged.

There is no serious overbuilding: in fact, the need for the right kind of house in the right place is the greatest in our history.

What has happened is that the *character* of the market has changed, and is continuing to change. Some builders failed to fully assess what had happened, and overbuilt in certain price ranges and in a few areas. The "inventory" of unsold houses, however, is very small. Builders are now moving rapidly to restudy local markets, bring out new designs, make needed changes.

With Congress now considering a monumental series of new housing bills, it is important that the charge of overbuilding should not be allowed to gain momentum, or used as an excuse to stop housing action.

The basic U. S. need for 1.5 to 2 million houses a year in the sixties has been established beyond question. Two Presidential committees have confirmed it, as well as numerous private studies and surveys. AMERICAN BUILDER fixed this goal in its "Set Your Sights" editorial campaign in 1957, and has re-affirmed it many times since. The actual need is far greater than statistics show; it looks like this:

Aim for higher standard of living. The dynamic American economy does not subscribe to a philosophy of housing need based on "just keeping people out of the rain." There's an enormous unfilled demand from people who want to upgrade their living.

Explore small town markets. The smaller towns and nearby rural areas have not had financing and marketing help comparable to other areas. Steps are under way to expand this market. Smart builders are exploring the potential, which is great.

Try a lower price level. An enormous field for sustained building volume lies in lower cost homes. Builders are experimenting with new construction methods, and new financing approaches to expand this market. New long term financing incentives will stimulate such work.

Seek specialized markets. We need greater emphasis on the elderly or retirement house market. More than 500,000 persons a year enter this category. There are now 16.6 million Americans 65 or older. They can be sold through special attention to their requirements: single family houses easy to live in, group housing, or low cost projects sponsored by churches, fraternal groups.

City rebuilding and renewal. This is a field where both private and public effort will skyrocket in the next few years. It has been described as a 50 billion dollar market. Town houses, row housing and new types of group housing will be aided by new financing and zoning concepts. Housing for families displaced by road building, slum clearance and rebuilding will be important.

New approach to remodeling. To keep our old communities from deteriorating, new emphasis will be placed on remodeling and property improvement. Plans for new FHA and private financing on a long term, low-down payment basis are under way. These would permit adding rooms or major additions at low interest cost.

Add to the above the uncountable jobs needed to replace 10 million sub-standard housing units revealed by the 1960 Census and you get a picture of a housing market far greater than the 1,250,000 built last year. It's a picture that refutes any charge of overbuilding, and in fact, cries out for new efforts to expand construction.

Joseph B. Mason, Editor

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NEW Firestone TRANSPORT-100

BOOSTS TRUCK
TIRE MILEAGE 50%

... AND MORE



NOW... on your trucks... get an extra tire mile for every two you run!

109 million test miles prove the Firestone all-wheel position Transport-100* delivers 50% and more original tread mileage and more all-weather traction than any other regular original equipment Firestone tire. Even when half-worn it gives faster starts and quicker stops than most truck tires when new. Why? • A new tread design.

■ Torque-toughened Firestone Rubber-X; Shock-Fortified cord. ■ A flatter crown to equalize tread print pressure. ■ A broad center rib for better load distribution. ■ "Stone guards" to keep tread pebble-free. See the new Firestone Transport-100 at your nearby Firestone Dealer or Store! In Nylon or Tyrex® rayon cord, tubeless or tubed.

*Firestone T. M. Member of THE ATA FOUNDATION of THE AMERICAN TRUCKING INDUSTRY ® T. M. of Tyrex, Inc.

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Nobody covers American Building like American Builder

-----PLANNING --BUYING-- BUILDING-

April 1961

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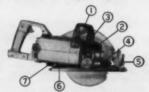
Now! Best Skilsaw models in 36 years!

with new "Burnout Protection" motors, backed by full year FREE service policy!

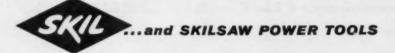
Take it from us—you simply can't afford not to use these newest versions of world famous Skil worm-drive saws, they're that much better!

12 major improvements. To start with, we took the finest Skil power saws ever made (the 6½" Model 367, 7½" Model 77 and 8½" Model 825) and gave them new B-P motors that give "Burnout Protection" even during frequent, excessive overloads. Next, we made oil level control and oil pressure relief automatic. Then we added a new airflow

hood for better cooling, and the convenience of an easier-to-read bevel gauge and a telescoping blade guard that can't bind even on trickiest miter cuts. The list of improvements goes on and on to make these, unquestionably, the finest saws ever to carry the name "Skilsaw"... and that's saying a lot! Ask your Skil distributor for more information, today. Look under "Tools-Electric" in the Yellow Pages. Or write: Skil Corporation, Dept. 106D, 5033 Elston Avenue, Chicago 30, Illinois.



(1) New plastic-covered top handle for cooler handling. (2) Automatic oil level control. (3) New air flow hood. (4) Push-button blade lock. (5) Easy-toread bevel gauge. (6) Stronger steel foot. (7) New sawdust ejector system.



VHAT'S NEW and what to do about it

Congress moves to enact Kennedy housing legislation

President Kennedy's special message to Congress on housing covered such a broad front as to effect the business of every builder in the country. Much of it involved long range legislation that will take years to achieve. But on the whole it was accepted by builders as a strong attempt to raise the level of building activity. Indications are that most of his requests will be enacted into law. The 40-year, no down payment loans for FHA attracted major comment. Financing men, as could be expected, viewed with alarm.

Builders "cautious but hopeful": changing their home designs

Views of 50 leading builders polled at the recent Builders' Intentions Conference at the Housing Center in Washington showed that only 7% expect a decline in business in 1961 from 1960. Half expected no change, and 44% a better year. Significantly, every builder polled said he is making "major design changes" inside and out. More than half said they were moving into new market areas. And the percent of those specializing in low cost houses moved up from 18 to 28%.

Now might be the time to follow the leaders—who, by the way, are predicting a 30% increase for themselves. Take a new look at your market and your product. If they don't match, change one or the other-fast.

Slow market sends builders back to school

The combination of a slow market and changing conditions is causing record numbers of builders to go back to school. The trend was first evident at the NAHB convention in Chicago where every clinic, meeting and educational session was jammed. Since then builder training courses of all types have been heavily attended. NAHB is now conducting a series of sales courses in 25 cities, the first of which have been sellouts. They are sponsored by Owens-Corning Fiberglas Corp., conducted by experts: Stan Edge, Jim Mills and Bill Molster.

Its a good year to brush up. For information on Sales Courses, write William Molster, NAHB, 1625 L Street, N.W., Washington, D. C.

Save the good FHA men before it's too late

The FHA is starting to replace its local directors. The Chicago chief was one of the first to go—and most big cities stand to lose their directors to the spoils system. Not everyone is happy over the prospect. Says one prominen Southwesterner: "We're trying to keep our man in Houston, Bill Painter. He's a real workhorse." A common cry: "I wish something could be done to keep the technical men in and the politicians out."

If you've got a good man locally, get to work now. Things to do-Write FHA's new head, Neal Hardy; Wire your Congressman, endorse your man before it's too late.

The changing market: average FHA house priced at \$14,607

FHA's just released figures on the 1960 home market show that valuations, taxes, mortgage amounts and buyers incomes all rose sharply. The average FHA home was appraised at \$14,607. Table shows some of the significant changes since 1950.

Landen P. Landen	T950	1961	ı
Mortgagor's income	\$4,213	\$ 7.168	
FHA property valuation	8,594	14,607	
Market price of site	1,035	2,470	
FHA mortgage principal	7,307	13,569	
Floor area (square feet)	894	1,091	
Number of rooms	4.6	5.5	

"How much is enough for advertising?"

JOHN R. SARGENT, partner in the nationally-known management consultant firm of Cresap, McCormick and Paget, points the way toward solution of one of top management's knottiest problems.

"Good sales management generally knows the crucial sales problems faced by each one of its products. Through good advertising advice plus experience, trial and error, and some judicious advertising testing, sales management also can come to have a good understanding of what advertising can and cannot do.

"At the same time, sales management should be sure to take a careful look at what each of the other sales producing factors are supposed to be doing.

"If all these elements of the sales plan are carefully evaluated, and the key assumptions are checked regularly, you're off to a strong start in making sure that your advertising appropriations are neither so high as to be wasteful, nor so low as to penalize your marketing effort."





ASSOCIATION OF INDUSTRIAL ADVERTISERS

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An organization of over 4000 members engaged in the advertising and marketing of industrial products, with local chapters in Albany, Baltimore, Boston, Buffalo, Chicago, Cleveland, Columbus, Dallas, Denver, Detroit, Hamilton, Ont., Hartford, Houston, Indianapolis, Los Angeles, Milwaukee, Minneapolis, Montreal, Que., Newark, New York, Philadelphia, Phoenix, Pittsburgh, Portland, Rochester, St. Louis, San Francisco, Toronto, Ont., Tulsa, Youngstown.

Shell Houses in the spotlight: sales (and stocks) soar

Sales of shell houses have set new records, and stocks of companies in the business have soared. Latest idea is the sale of these houses in various stages of completion: the buyer can select any phase of completion from a mere shell to an almost completed house.

Most spectacular entrant is Certain-teed Products Corporation, with it's IEH Homes sold through authorized builders or lumber dealers. Cooperating builders have a choice of house plans, material lists and other advantages including financing and merchandising.

Reaction of builders to the Certain-teed program has been mixed. Some view this as competition. One prominent builder told American Builder, "I have switched my roofing and siding orders to another company." Others say that IEH is opening a big, new, untouched market they wouldn't get anyway. Most significant: a good many builders are getting into their own versions of the shell house business.

It's a market worth looking into. For a list of Shell House manufacturers, Write AMERICAN BUILDER.

Why builders go broke: lack of liquidity

The recession caught a good many builders with too high an inventory, too much land or too little capital. Result: the number of bankruptcies rose sharply last year and is still continuing. Average builder "turnover" is normally about 12%: that's the number that leave the business for one reason or another each year. It's estimated the figure may rise to 20% this year. The casualties have been all up and down the line from very large to very small firms. The reasons come down mostly to one word "liquidity." When sales slowed down, these builders found for the first time that they had not been making as much money as they thought. Their estimating and record keeping was faulty. The limited capital they had was "locked in." Many found that trade-ins instead of a boon were a terrible liability.

Turnover has always been high in the building industry because every year brings in a new crop of untrained, inexperienced firms who often have to learn the hard way. Best way to avoid trouble: strengthen your estimating, accounting, cost control and cost record systems.

"Sweat equity"—a boon to sales in lower-price range

An Ohio builder sold 175 houses in two weeks when he moved into a program allowing the buyers to finish up the houses by their own labor. Most of the downpayment is thus earned by the buyer-it's called "sweat equity."

The idea isn't new, but it has been making great gains throughout the country and builders have found it the best way to tap the very low-priced field. Usually the house as sold leaves the painting to the buyer. Sometimes he also installs interior doors and trim. He also does all his own driveways and walks.

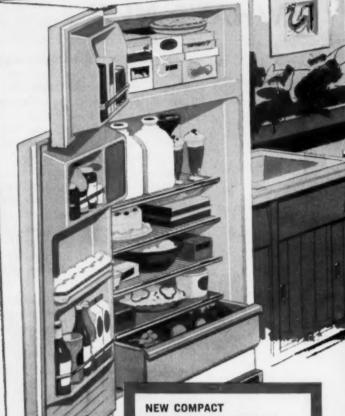
Look into "sweat equity" procedures, check the financing with a smart mortgage broker who can advise on how to handle paper work.

Prefab stocks advance—emphasis on financing and service

Stocks of several of the largest prefab manufacturers-including Inland and National-have advanced sharply on the market. But sales have not been enough to justify such action. Spokesmen for the industry say optimism is built on one concept "all inclusive service." By this they mean that prefabbers are increasingly expanding the "house package" they offer to builders with such aids as financing, land purchasing, cost controls, merchandising, model home displays and sales training. Most important of all is the financing. Another factor in the stock activity may be the entrance of prefab firms into the shell house market.

If you're interested in prefab services, write one of the 69 firms listed in AMERICAN BUILDER'S Directory of Home Manufacturers—page 78 of this issue. **New from Hotpoint**

SPACE SAVING **APPLIANCES**



REFRIGERATOR-FREEZER

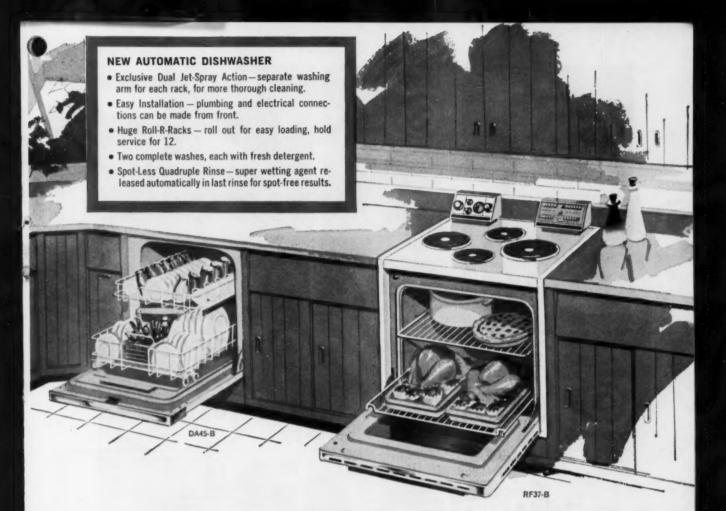
- Big Inside, Trim Outside only 28" wide, yet has big-family capacity.
- True Two-Door Combination with separate 89 lb. zero-degree freezer.
- Space-Saver Hinges no side clearance needed for door.
- Roomy No-Frost Refrigerator -has real porcelain crisper.
- · Handy Glide-Out Shelves.

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EASY INSTALLATION

In a wide variety of models and prices ELECTRIC RANGES . REFRIGERATORS **AUTOMATIC WASHERS . CLOTHES** DRYERS . CUSTOMLINE® . DISHWASH-ERS . DISPOSALL® . WATER HEATERS FOOD FREEZERS . AIR CONDITIONERS ELECTRIC BASEBOARD HEATING

CK55-B



Today every building inch counts more than ever before! And Hotpoint takes fewer inches to give your kitchens that luxury look at low cost. For example, the Hotpoint Town and Country Range combines oven and surface section in one low-cost compact unit just 30" wide. The new Hotpoint Compact Refrigerator-Freezer is a true 2-door combination, but it's only 28" wide.

These are not stripped-down economy models. They're full capacity models loaded with deluxe features you can demonstrate and sell... yet still keep your selling price low! Contact your Hotpoint distributor and see the full line. You'll see why Hotpoint appliances are built for builders—like you.

NEW TOWN AND COUNTRY RANGE

- Low Installation Cost—slides in like a drawer, needs just one electrical connection.
- Twin Control Towers—easy to see and reach, yet away from "little fingers" and spatters.
- Automatic Oven Timer—turns oven on and off with pre-set clock control.
- "Super 2600" Speed Unit—heats so swiftly it boils a can of soup in 65 seconds.
- Removable Window Door-for easy oven cleaning.

point

A Division of General Electric Company, Chicago 44, Illinois







SIMPLY SLIP THE HALVES TOGETHER IN THE OPENING AND NAIL IT TO THE WALL IT'S DONE IN 20 MINUTES!

REDUCES FINISH CARPENTRY COST 65%!

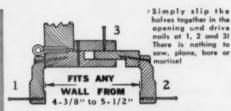
CRATED* FOR DELIVERY IN PERFECT CONDITION

THE +T-E-N-S-1-D-N+ BAND D DOES IT! SPACER BLOCKS

Tension in the steel band exerts equalized pressure (indicated by the arrows) at the corners to draw the frame in tight contact with the rigid door. Frame joints and mitres are therefore rigidly held square and tight by the deer itself.

Spacer blacks between the door and frame serve a dual purpose: (1) They block the frame around the door during shipment, and, (2) Are used to maintain proper door clearances while the door is being installed. Faces are protected by cardboard when shipped by common carrier.

* PAT. NO. 2489029



- Fasteners on mitre joints in the trim keep mitres tight indefinitely.
- Doors conform to the Commercial Standard for the style used. Units are furnished left and right with 1%" inside doors in all standard sizes.
- Butts or hinges are 31/2 x 31/2, full mortise type. READY HUNG DOOR units are completely assembled with all hardware installed except door knobs.
- The READY HUNG DOOR manufacturer in your territory carries in stock standard units with the trim pattern specie and hardware popular in your area.
- Looks identical to conventional doors when installed.

RIGHT LEFT HAND DOOR

HAND DOOR

Size 2

WHEN ORDERING specify the following: (Write as shown in sample order below)

Door Style Specie & Grade Trim Puttern Finish & Style** of Lock RH 2-0x6-8 RHD Flush Birch "A" #XXX Trim Brass Pass Lock

*When the door opens TO YOU and the KNOB is on the RIGHT hand side, it's a right hand door.

**Locks are furnished in Passage, Bath, Closet and Bedroom Styles.

WHICH PLANT IS NEAREST YOU?

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Small broker's office sells itself



This handsome building doubles as business base and advertisement for a yacht brokerage firm.

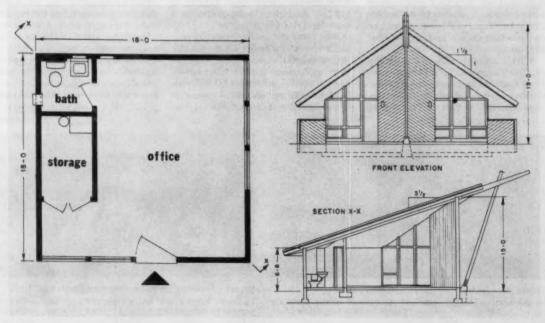
Simple, functional design and speedy erection make this compact office a builder's delight.

It's the home of Columbia Yacht Brokers in Portland, Oregon; but the handsome, versatile structure easily could house anything from a real estate office to a roadside hotdog business.

Designed by Vancouver architects McCoy and Bradbury, the building makes maximum use of West Coast lumber. The wood effects give the structure considerable warmth and a nautical flair.

The building's unusual shape reflects a growing trend in commercial building design (see detail, below). That's to design so the building not only will serve as a business office but will act as a promotion for the business it houses.

EASY TO BUILD—West Coast lumber adds nautical touch to architects' Mc-Coy and Bradbury design for yacht broker's business office in Oregon.





How can you sell 200 houses

Laramore Construction Company did it on a bean farm in obscure area outside Los Angeles. His story proves there's more than one way to beat depressed markets.

The answer for builder Laramore was to put the right houses on the right land, sell them for the right prices and terms with the right advertising and sales program. The next question became—how do you find out which of each is right?

Market research tells you, according to Lou Laramore, president of Laramore Construction Company, builders of more than 8,000 houses in the Los Angeles area. His sales figures proved him right—Eastgate development alone within the last year boasted sales of 2,200 houses priced from \$11,960 to \$15,350. And these were made on a bean farm out in the "sticks."

What role did market research play in Laramore's success? First, it told him that though the bean farm was far from civilization, it held some advantages. Population growth along with hundreds of large and small industries was headed for it. Second, it told him that the farm's proximity to the Pacific Ocean and the freeways of Los Angeles, Long Beach, and Santa Ana, provided a huge source of prospects.

Then the question came up—what kind of houses to build? Market research said that Laramore could make out best with homes in the \$12,000 to \$14,500 range, featuring low down and monthly payments, low closing fees.

So Laramore worked out a finance plan under which the homes would be sold on contract with only \$295 down to non-vets plus \$90 closing costs. The balance would be payable in monthly installments of \$94.50 at 6.5% interest. Once the buyer had paid \$995 on the principal (including the down pay-



Smart merchandising gets customers inside Handsome wrought-iron gate and stone fence creates motif for the entire Eastgate subdivision. Theme attracts large crowd.



Smart planning frees buying parents from "kids" Laramore keeps supervised playground near sales office to free parents of baby-sitting while they look over the model homes.





Salesmen offer prospects low down payment, attractive terms Homes are sold on contract with only \$295 down to non-vets, \$90 closing costs. Balance is in \$94.50 monthly payments.

Prospects throng to bean farm subdivision in low-price range. Market research that said \$12,000 to \$14,000 range would sell best proves prophetic at Eastgate, Los Angeles.

a month for 11 months?

ment), he would be required to make application for taking over the first trust deed loan. Laramore estimated that this would take about 36 months. At this time the builder would take back a second trust deed for any difference between the first loan and the amount still due. Meanwhile, there would be no balloon payments.

"It's one thing to know what price class you want to be in, and another to hit it when the homes start going up," Syd Bartlett, general manager for Laramore, said. "So, we figured backward. We listed our fixed cost items and the difference between these and our selling prices had to take care of construction costs."

Bartlett said that many builders start with the house then let the other items fall where they may. He explained that when this is done the builder sometimes finds himself in a higher price bracket than he intended.

These were Laramore's fixed costs: land: \$2,800; financing: \$875; advertising and selling: \$500; overhead: \$300; profit: \$1,200.

These items total \$5,575. By deducting this amount from the selling price, Laramore arrived at the total money available for building the house. Deducting the fixed costs from the original \$13,350 price of one house left \$7.675 with which to build it.

How was it possible to build an out-

standing house for \$7,675? "Simply," said Bartlett, "by carefully watching every single item of cost then cutting it wherever you can. That means you must look at your material, labor and construction costs, and improve them wherever you can."

A big part of Laramore's success is due to careful researching of the local market. But important, too, was the care taken in putting to work the most modern, up-to-date materials, construction methods and merchandising techniques.

Designers for Eastgate were L. C. Major and Associates of Downey, Calif. Marketing Engineers of Santa Ana handled advertising and promotion.



Smart construction cuts cost of house

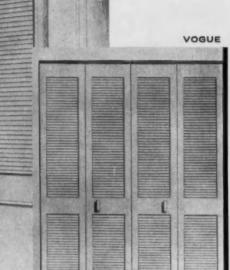
Laramore searches constantly for ways to speed construction time. This enables him to offer buyers more house for the money.



Smart design for low price sells prospects

Handsome ranch model (fully landscaped) goes for under \$15,000 and proved an outstanding seller despite depressed market.

PATRICIAN



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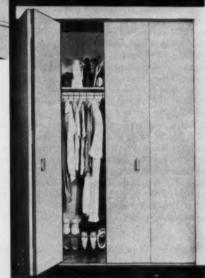
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- EASE OF INSTALLATION Each unit is fully assembled and factory-balanced for fast and easy installation.
- PRECISION-ENGINEERED ROBERTS-FOLD* closet doors are made of top quality 24-gauge cold rolled steel panels with rigidly reinforced weldings. Even 8' doors never buckle, warp, stick or jam. Nylon-surfaced bearings glide whisper-quiet along exclusive ROBERTS® twin-tracks.
- PRIME COAT FINISH takes all types of paint without streaking or bubbling. Easy to wipe clean with damp cloth.



MODERNE

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DRAFSTOP® Weatherproofing • NAP-LOK® Binder Bar • ZEPHYR Range Hoods

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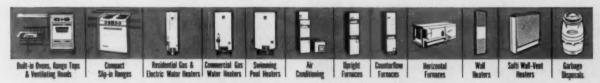


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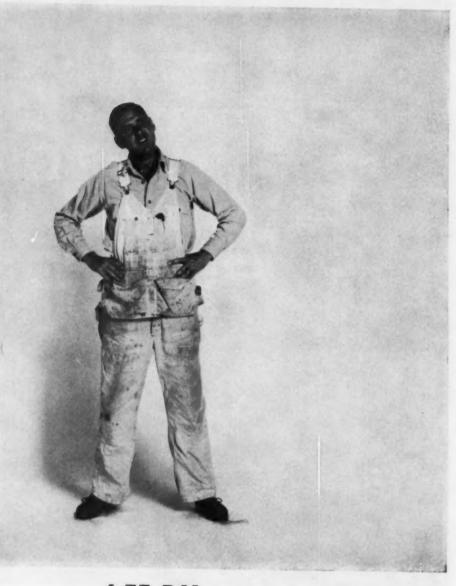
Harry Hood says: "Not only do you make a fair profit when you use PIONEER quality products, but you are backed by excellent factory service and a company who always stands behind its warranty." Pioneer Manufacturing Co.—always competitive with the market.



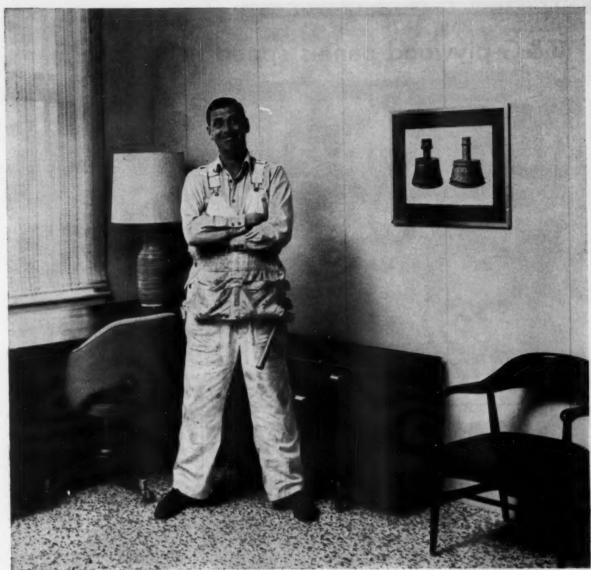


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The new Movable Pabcowall System is a studiess, 2k'' thick interior gypsum partition that costs 50% less installed than many conventional systems.

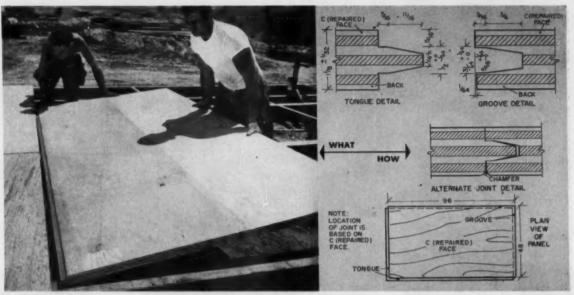
In addition, new Movable Pabcowall: saves valuable floor space; is onehour fire rated; is quickly erected, dismantled, moved and re-erected; has a noise reduction coefficient of 37.7 decibels and weighs less than 7.5 pounds per square foot of finished wall. Height limit 10'0". And the beauty of Pabcowall is that it adapts to any decor. Handsome 2 ft. modules provide a smooth, clean surface that can be readily painted or vinyl covered. Available with steel or aluminum trim. So for speed, economy and customer satisfaction... specify new Movable Pabcowall.

For free architectural specifications, write (on your letterhead): Pabco Technical Services Dept.,475 Brannan St., San Francisco.

PABCO

Pabcowall is made for the West by the Pabco Gypsum Division, Fibreboard Paper Products Corporation, San Francisco, California

T&G plywood panels speed floor framing



SPEEDY-Workmen fit tongue and groove subfloor panel into place on a California housing job. Method developed by Doug-

las Fir Plywood Association is a refinement of single layer combination subfloor-underlayment but cuts costs 5 to 10%.



New tongue and groove plywood sub floors introduced by Western plywood manufacturers are proving standout performers on a California subdivision.

The panel method is a refinement of the single layer combination subfloor-underlayment treatment which eliminates blocking under panel edges. They are being used by C. B. Chacksfield of Gardena on his 154unit Rolling Hills housing development.

Key to the method is the tongue and grooving of 2.4.1 panels of fir plywood 1-1/8" thick. These are laid as subflooring over girders on 4' centers. Standard panels of 2.4.1 plywood require at least 2x4" blocking under the panel edges between girders. The new panel eliminates this requirement and simplifies the floor framing scheme—thus cutting costs.

Chacksfield, whose California contemporary ranch homes range in price from \$18,500 to \$43,000, saysthat on a 1,400 sq ft floor area, twomen can lay the subfloor in just 5hours. This includes placing of mud-sills, intermediate wood postson the piers, girders, and subflooring nailed into place.

"The 2.4.1 method with carpet-

(Continued on page 10-P)

FOREST PREFINISHED IN A SCATTERED MOSAIC DESIGN



A "NEW CONCEPT" IN HARDBOARD

Notice how Forest Sandalite used here as a wainscot and as sliding cabinet doors adds a little spark to the room . . . offers texture, makes it appealing. What's more, it is very practical. Sandalite is designed to take abuse and still look beautiful. And the price is far less than you'd expect.

CHOICE OF PANELS

RANDOM GROOVE TEE-N-GEE PUNCHED PLAIN PANELS

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I am interested in Sandalite.

- Please send sample of the board.
- Please have sales representative call.
- ☐ Send Technical Bulletin.
- *patent applied for.



WHAT IS SANDALITE?

FOREST SANDALITE IS famous Sandalwood Hardboard with scattered highlights of three shades of color imbedded into the surface. This lustrous finish is baked in permanently . . . it won't wear off, it is impervious to water, oil, food stains, dirt, grease, bumps and nicks.

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It's the brand new exterior material that eliminates painting. Completely. (The color's built right in!) You can finish a home five to ten days faster. And save up to ten dollars a day in financing and supervisory help. What's more, Colored Pab-Flex is fire, termite, rot, and dent proof. All at less than a third the cost of brick or stone! In fact the applied price compares favorably with stucco. And there's no waiting for dry weather. No water on the job. No messy clean-up. (The colors? Nine of them in all—five textured, 3/16" thick; four smooth, 1/8" thick. In 4' x 8' panels and other lengths on special order.) Ask your Pabco dealer to show you samples. Soon! Colored Pab-Flex is brought to you by Pabco Roofing Division, Fibreboard Paper Products Corporation, 475 Brannan Street, San Francisco, California.

(Continued from page 10-L)

ing," says Chacksfield, "lets us offer a completely carpeted house at only \$300 extra to the buyer."

He also uses 2.4.1 panels for his second floors in single family and garden apartment construction.

"We'd been having a little trouble with springy floors in regular construction," Chacksfield explains. "So we started placing 2.4.1's over regular joist construction on second floors for rigidity. The panels cost only a little more but the heavier, sturdier construction more than makes this up."

The new joint was developed by the research division of the Douglas Fir Plywood Association which tested it under laboratory conditions and in six actual installations

in the field.

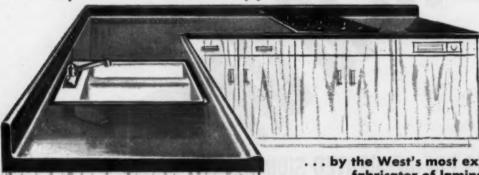
"In the field tests," says John Hess, DFPA's technical director, "every application showed savings. But some builders claim economies above that of others. Where detailed costs are available, a typical job appears to produce savings in basic floor construction (exclusive of finish) of from 5 to 10%.



METHOD-Panels are placed as subflooring over girders on 4' centers. Standard panels require at least 2x4" blocking under panels edges-a practice method eliminates.

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styled for custom appeal in volume-built homes!



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Catalogs are listed under their corresponding product headings. Example: adhesives catalogs would appear under "Bonding agents." Use reply cards opposite to get free catalogs.

Bathroom cabinets

BATHROOM CABINETS are featured here. Covers recessed and surface sliding door cabi-nets, mirror-vanity combinations, among others.-Grote Mfg. Co.

Circle No. 1 on reply card, p. 11

BATHROOM CABINETS subject of well-organized four-page folder. Finished in choice of five decorator colors and white, the cabinets are shown in basic units and combinations. -Kitchen Maid Corp.

Circle No. 2 on reply card, p. 11

MEDICINE CABINETS, with and without fluorescent lights, are featured Twenty-four page catalog dis-cusses construction features, gives lots of specification tables,—F. H.

Circle No. 3 on reply eard, p. 11

MEDICINE CABINET with medical CABINET with one-piece, deep drawn body and rust-proof protective base. Four-page folder illustrates and gives specifications. Made from heavy gauge steel.—Zenith Metal Products Co.

Circle No. 4 on reply eard, p. 11

Bathroom fixtures & accessories

COLOR-SCHEMED bathroom, lavatory, kitchen units. Illus-trated folder includes color decorator guide and samples. Fixtures are made of vitreous china and enameled iron in matching sets.—Kohler Co.

Circle No. 5 on reply eard, p. 11

LAVATORY LEGS and towel bars are described in this pro-chure. Designed for all makes of vitreous china, iron enamel and steel lavatories.—Reed-

Circle No. 6 on reply eard, p. 11

LUXURY BATHROOM SET is pictured in 94-page catalog. Choice of seven colors, Includes porcelain enameled steel re-cessed tub, features automatic bath and shower diverter and pop-up drain.—Gerber Plumbing Fixtures Corp.

Girele No. 7 on reply card, p. 11

ONE-CONTROL VALVE for shower and bath to control water temperature and volume is sub-ject of folder. Describes easily re-Circle No. 8 on realy eard, p. 11

SHOWER CABINET portrayed in full-color brochure. Comes complete with soap dish, shower chromium-plated brass If door is not ordered, curtain, rod and pins are furn-ished.—Fiat Metal Mfg Co.

Circle No. 9 on reply card, p. 11

SHOWER STALL enclosures are featured in four-page folder which outlines specifications. Choice of hammered frosted or Pluralite glass.—Theodore Efron Mfg Co.

Circle No. 10 on reply card, p. 11

STEEL CABINETS for built-ins STEEL CABINETS for built-ins are available in white, yellow, pink, turquoise or traditional finish. Can fit on matching base panels. Twelve-page booklet illustrates variety of cabinets. lustrates variety of Republic Steel Corp.

Circle No. 11 on reply sard, p. 11

STEEL SHOWER CARINETS are featured in four-page folder. Illustrates two models, gives specifications in chart form. Roughing-in details and cross-section of receptor also appear.— W. F. Norman Sheet Metal Mfg.

Circle No. 12 on reply card, p. 11

TOWEL RING made synthetic material. Folder shows how it can be mounted on con-cealed bracket. Can use either adhesive or screws for tile, glass, plaster, wood, metal or plastic.

—Mirra-Cote Co., Inc.

Circle No. 13 on ranky eard, s. 11

TUB ENCLOSURES and shower doors are examined in eight-page folder. Open end, recessed and folding tub enclosures are de-scribed.—Beauti-Dor, Inc.

Circle No. 14 on reply eard, p. 11

TUB AND SHOWER fixture, illustrated in 16-page catalo installs on-not in-wall. D signed to overcome variations in wall thicknesses. Can be used with space-saver partitions. Appears as concealed fixture.— Milwaukee Faucets, Inc.

Circle No. 15 on reply eard, p. 11

Bonding agents ADHESIVE designed to stick

"anything to anything" is cov-ered in bulletin. Can be used for most general purposes, but serves to bond wall fixtures, ceramic tile, insulation boa glass, etc....Goodloe E. Moore

Circle No. 16 on reply card, p. 11

CALKING, GLAZING and sealing products are described in this catalog. Includes packaging data on each product. All catalog pages are punched for use in standard book.—DAP Inc.

Circle No. 17 on reply eard, p. 11

CONCRETE BONDING agent that adheres new topping to base concrete and welds two together

is presented in four-page folder,

Larsen Products Corp.

Circle No. 18 on reply card, p. 11

CONSTRUCTION SEALERS designed to meet the demands of modern design are offered in a four-page, illustrated catalog.

Properties and functions of
epoxy alloys are explained.

Coast Pro-Seal & Mfg. Co.

Circle No. 19 on reply card, p. 11

EPOXY PRODUCTS are de-EPOXY PRODUCTS are described in general information pamphlet. Designed for sealing, filling, joining, repairing, surface coating, bonding and topping of concrete, asphalt, masonry and other building materials.—Permagile Corp. of America.

Circle No. 20 on reply card, p. 11

PLASTIC CEMENT mortar for installing ceramic tile on masonry surfaces. Featured in 20-page catalog which shows its uses with rough concrete, cinder-block, etc. Detailed instructions. - Miracle Adhesives Corp.

Circle No. 21 on regly eard, p. 11

Brick, clay, masonry,

AZTEC STONE, a new decora-tive masonry wall material, is examined at length here. Litera-ture describes different designs available and emphasizes its use as a facade for remodeled buildings.—Emco Cement Products.

Circle No. 22 on reply card, p. 11

STRUCTURAL CLAY products for light construction are described and illustrated in colorful booklet. Includes facing brick, glazed and unglazed facing tile, clay sewer pipe, drain tile and flue lining....Natco Corp.

Circle No. 23 on reply card, p. 11

ALL-FUEL CHIMNEY is de-scribed in illustrated, fold-out brochure. Details are given on the principle and construction of Included are illustrachimney. Included are illustra-tions, a chart of model combinations, and cut-away diagrams. General Products Co., Inc.

Circle No. 24 on reply card, p. 11

PREFAB CHIMNEY with concealed tank at the top is ex-plained here. Available in a wide range of sizes and styles. Includes installation data.—Condensation Engineering Corp.

Circle No. 25 on reply sard, p. 11

Clothes dryers

CLOTHES DRYER with two separate air stream units for dry-ing speed. Folder gives dimen-sions and specifications. Includes

130-minute rotary timer and rotary temperature guide selector.
One-piece wrap-around cabinet.
—Hamilton Mfg. Co.

Circle No. 26 on really eard, n. 11

DEXTER with electronic control is shown in punched sheet with diagrams. Color picture shows appliance in typical setting. Full specifications are given in the control of t GAS DRYER with electronic setting. Full specifications are given including dimensions. Dis-cusses such features as burner, safety shutoff, thermostats, etc.— Maytag Co.

Circle No. 27 on reply eard, p. 11

Concrete forms & equipment

CONCRETE construction method for swimming pools is de-scribed in 12-page illustrated booklet. Check list of advantages is given in chart form. Emphasis in photos is on large comp pools.—Amcrete Corp.

Circle No. 28 on reply card, p. 11

CONCRETE EQUIPMENT and accessories is subject of 28-page catalog. Covers vibrators, grinders, troweling machines and vi-brating screeds. Includes mate-rial on how to build your own screed beam.-Stow Mfg. Co.

Circle No. 29 on reply card, p. 11

CONCRETE FORMS are pre-sented in six-page catalog that graphically illustrates patented system of forming. Wide range system of forming. Wide range of forms are available for light commercial construction. Flexi-bility and versatility is stressed. —Simplex Forms System, Inc.

Circle No. 30 on reply card, n. 11

CONCRETE FORMS, ties and hundreds of concrete accessories are contained in this descriptive catalog. Many illustrations, specifications.—Universal Form Clamp Co.

Circle No. 31 on reply card, p. 11

STEEL FORMS for concrete construction are pictured in 12-page catalog. Various form setups for curved and tapered walls, tunnels, columns, offsets and simple walls are shown. Lists ac-cessories, tool, supplies.—Economy Forms Corp.

Circle No. 32 on reply eard, p. 11

Door chimes

DOOR CHIMES are subject of two-page sheet which shows them mounted both horizontally and vertically. Complete with transformer, pushbuttons, cap ready to plug into receptacle. Available in ivory, pearl white, sandstone.—Cable Electric Prod-

Circle No. 33 on reply card, p. 11

DOOR CHIMES are one of many electrical built-ins shown and described in 72-page, full-color pocket catalog. Has comand described in 72-page, rull-color pocket catalog. Has com-plete data, installation diagrams on hood-fans, door chimes, inter-coms, stereo-intercoms. Also covers bathroom ceiling, wall heat-ers.—NuTone, Inc.

Circle No. 34 on reply eard, p. 11

Doors

DECORATIVE ENTRY DOORS shown in folder containing de-sign diagrams. Constructed of wood blocks, wood strips, or combinations of both. Blocks are smooth and uniform thickness.—Bellwood Co.

Circle No. 35 on reply card, p. 11

DOORS of many types are Gives specifications, explains spe-cial construction features. Includes data on types of opera-tions, both manual and electrical.

—Kinnear Mfg. Co.

Circle No. 36 on reply card, p. 11

ENTRANCE DOORS are treated in this colorful catalog, Nearly 200 floor designs are illustrated, enabling home planner to choose among many styles .- Visador

Circle No. 37 on reply eard, p. 11

ENTRANCES catalog covers complete line of doors and entrances, along with hardware for commercial buildings. A wealth of details plus installation photos. Specifications included.— Kawneer Co.

Circle No. 38 on reply card, p. 11

LARGE WOOD DOORS, able in heights up to 14' and widths up to 50", are shown in eight-page, illustrated catalog. eight-page, illustrated catalog. Can be folded back on a track to save space.—Wood Specialty.

Circle No. 39 on reply card, p. 11

METAL DOORS and frames, specifically designed for residen-tial use and apartment buildings, are illustrated in descriptive ca-talog.—Steelcraft Mfg. Co.

Circle No. 40 on reply card, p. 11

SOLID CORE flush doors are covered in eight-page catalog. Construction features, face veneers and specifications are given.

—Morgan Co.

Circle No. 41 on raply card, s. 11

STEEL SECTIONAL doors, for residential, commercial and in-dustrial uses. Illustrated in eightpage brochure. Wide selection of models come with framing details, complete specifications.— Morrison Steel Products, Inc.

Circle No. 42 on reply card, p. 11

Doors, folding

ADDED SPACE is main benefit of folding doors described in this illustrated folder. Floor to ceiling sizes, for use as partitions, are stressed. Details of cost-cutting applications appear along with list of special features.—New Castle Products, Inc.

Circle No. 43 on reply card, p. 11

COMPLETE LINE of folding doors, for residential and com-mercial use, are shown in a 16page booklet. Feat data, installation.—A cordion-Fold Doors. booklet. Features design -American Ac-

Circle No. 44 on reply card, p. 11

FOLDING CLOSET DOORS. designed for space saving and easy installation, are depicted in literature giving specifications. Units are designed to fill any opening. Practical advanta-listed.—Float-Away Door Practical advantages are Float-Away Door Co.

Circle No. 45 on reply eard, p. 11

FOLDING DOOR for tub or shower is described and illustrated. Gives three simple installation steps. Lists sizes for both functions and gives specifications.—Showerfold Door Corp.

Circle No. 46 on renly card. n. 11

FOLDING DOORS and room dividers in a variety of styles are covered in catalog sheets. Con-struction features and installation details.-Clopay Corp.

Circle No. 47 on reply card, p. 11

FOLDING DOOR UNITS which give full access are described in four-page color folder. Advan-tages are listed, along with wide range of applications in home. —Ready Hung Door Corp.

Circle No. 48 on reply card, p. 11

FOLDING WOOD DOORS and partitions are illustrated in four-page booklet which shows colors of different woods offered.-elfold Doors, Inc.

Circle No. 49 on reply eard, p. 11

WOOD PANEL folding doors, designed to combine natural beauty of wood with convenience of lightweight construction. — Consolidated General Products.

Circle No. 50 on reply eard, p. 11

Doors, garage

GARAGE DOORS, overhead type, are offered in this illus-trated 16-page booklet. In ad-dition to easy opening, the doors are weathertight. — Barber-Colorer

Circle No. 51 on reply card, p. 11

GARAGE DOORS of steel and GARAGE DOORS of steel and wood for residential and com-mercial installations are present-ed in eight-page brochure. Three styles are stressed.—Berry Door. Circle No. 52 on reply card, p. 11

GARAGE PLAN booklet shows how overhead doors can be used with other elements of garage for maximum beauty, utility. for maximum beauty, utility Design kits are available.—Craw ford Door Co.

Circle No. 53 on reply card, p. 11

LARGE SELECTION of flush, sectional overhead doors are il-lustrated in four-page folder. sectional overhead lustrated in four-page folder. builder in blending garage area into front elevation. — Graham Industries, Inc.

Circle No. 54 on realy eard, p. 11

OVERHEAD DOORS for residential garages are illustrated and detailed in eight-page catalog. Shows styles and designs. Radio-controlled automatic door operator is also described.— Overhead Door Corp.

Circle No. 55 on reply card, p. 11

OVERHEAD SECTIONAL garage doors are pictured in four-page brochure. Designed to "float" on factory lubricated "float" on factory lubricated bearings. Table of stock sizes and headroom requirements cluded.—Calder Mfg. Co.

Circie No. 56 on reply card, p. 11

SECTIONAL, ONE-PIECE garage doors are described in 28-page catalog. Includes over 100 sizes and models. Covers sizes to fit almost any residential or commercial door .- Frantz Mfg. Co.

Circle No. 57 on renly eard, n. 11

SLIDING GARAGE DOORS with electronic door operators are pictured in three-sheet folder. Broad range of designs include decorative carved panels. Stress is on quality construction.

—Raynor Mfg. Co.

Circle No. 58 on reply card, p. 11

Doors, sliding glass

ALUMINUM SLIDING glass doors are pictured in 12-page brochure. Can be custom fabricated for large projects. Specifi-cations are included, along with selection chart and details. — Arcadia Metal Products.

Circle No. 59 on reply card, p. 11

ALUMINUM SLIDING glass doors are presented in an eight-page booklet stressing quality. Specifications and details are given for variety of models.— Sun Valley Industries, Inc.

Circle No. 60 on reply card, p. 11

WOOD SLIDING GLASS doors with steel-reinforced panels are illustrated, described in eight-page color catalog. Presents de-tails of many door features. Gives advantages of each and specifications.—Rolscreen Co.

Circle No. 63 on renty eard, p. 11

Earthmoving equipment & accessories

BACKHOE APPLICATIONS are examined in four-page cata-log. Also outlines advantages of model featured. Separate sheet lists complete specifications.— Young Spring & Wire Corp.

Circle No. 62 on reply eard, p. 11

BACKHOE LINE is covered in photos, diagrams and text of four-page folder. Specifications and digging ranges are included. Special buckets and booms are shown in detail. Work ranges are described.-Schield Bantam Co.

Circle No. 63 on renty card, p. 11

DITCHER-TERRACING blades are illustrated in four-page bul-letin. Lists advantages of each. Specifications included. — Servis Equipment Co.

Circle No. 64 on reply card, p. 11

HEAVY-DUTY LOADER shown in action in this 12-page brochure. Uses and method of operation are shown. Speci-fications table provides data on bucket, capacities, other features. Caterpillar Tractor.

Circle No. 65 on reply eard, p. 11

TILLER-RAKE is illustrated in folder showing various opera-tions. Machine scarifies, levels and rakes, all in one operation.

—Roseman Tractor Equipment. Circle No. 66 on reply card. p. 11

TRACTOR featuring four-wheel drive and steering takes wide variety of attachments. Colorfully portrayed in four-page, il-lustrated brochure.—Napco.

Circle No. 67 on reply eard, p. 11

TRACTOR-COMPRESSOR has many uses in building and main-tenance. Twelve-page booklet lists capacities, gives dimensions for variety of attachments.— Westinghouse Air Brake Co.

Circle No. 68 on reply card, p. 11

SHOVEL TRACTOR with 9,000-lbs. capacity is pictured in colorful, 16-page brochure. Index permits quick reference to main features and work phases. -J. I. Case Co.

Circle No. 69 on reply card, p. 11

TRACTOR SHOVELS are described in compact folder which gives photos and spees for each model. Complete line of attach-ments.—Frank G. Hough.

Circle No. 70 on reply eard, p. 11

TRENCHERS are illustrated in this colorful brochure. Specifications and capacities are given in detail for machines from 7 h.p. to 30 h.p.—Witch Marketing Co.

Circle No. 71 on reply card, p. 11

Fans, louvers, vents

ACCURATE rating system for exhaust fans now available in home ventilating guide. Fan labeling gives number of square feet, for each type of fan, that a particular fan will ventilate. particular fan will ventila Home Ventilating Institute.

Circle No. 72 on reply card, p. 11

ALL TYPES OF FANS, kitchen ventilating hoods, recessed and decorator lighting, fixtures, door chimes and intercom systems.

Illustrated and described in handy 112-page pocket catalog.

Emerson Electric.

Circle No. 73 on reply card, p. 11

ATTIC FANS and ventilating equipment are covered in this catalog. Also gives data on gas-fired furnaces and three, four and five-ton condensing units.— Bar-Brook Mfg. Co. Inc.

Circle No. 74 on reply card, p. 11

ATTIC FANS are described and ATTIC FANS are described and illustrated in 12-page booklet. Tables and drawings show how to select correct size fan for a house. Installation sequence is shown for Niteair special fan.— Lau Blower Co. Lau Blower Co.

Circle No. 75 on reply eard, p. 11

ATTIC VENTILATOR, available in aluminum or galvanized steel, is depicted in small handbook on ventilation. Discusses many aspects of ventilation. — Leigh Building Products.

Circle No. 76 on reply card, p. 11

BATHROOM FAN, combined with heater and light. Illus-trated sheet shows how polished, all-chrome grille permits free flow or air and heat. Adjustable brackets allow plaster variation.

—Ventrola Mfg. Co.

Circle No. 77 on reply eard, p. 11

EXHAUST FANS, contour roof type, are described. Contains dimension table, capacity table, cutaway view, typical specifica-tions and details of installation. -Davidson Fan Co.

Circle No. 78 on reply eard, p. 11

Circle No. 79 on reply eard, p. 11

VENTILATORS, power and gravity-type, and wall louvers are described and illustrated in concise bulletin. Technical concise buttern. I echnical data, design, construction, capacities, performance and dimensions appear for each type.

—Burt Mfg. Co.

Circio No. 80 on reply card. p. 11

Fasteners, nails, etc.

FASTENERS made from variety of metals and alloys are covered in 28-page catalog. Gives dimensions in table form. Special emphasis is placed on fasteners made from silicon bronze.—Chase Brass & Copper. silicon

Circle No. 81 on reply eard, n. 11

FASTENERS are depicted in four-page bulletin listing sizes and metals. Tells how they can be used to solve variety of problems. Describes special uses in secondary operations.—John Marcall Liey. Hassall, Inc.

Circle No. 82 on reply card, p. 11

DRY-WALL NAIL catalog gives DRY-WALL NAIL catalog gives data on sizes, application and cost reducing. Also covers full line of common and special nails, including ring shank and drive screw. — Sheffield Div. Armco Steel Corp.

Circle No. 83 on reply eard, p. 11

FASTENING DEVICES subject of 24-page, loose-leaf brochure. Specifications and standard size charts appear for plastic and lead screw anchors, expansion bolts, etc.—Holub Industries, Inc.

Circle No. 84 on reply eard, p. 11

FRAMING ANCHORS for roof, wall and floor framing. Eight-page catolog gives sizes, illus-trates uses. Made from 18-gauge, zinc-coated sheet steel.

Circle No. 85 on reply card, p. 11

MASONRY FASTENERS and drilling devices. Described in pocket-size catalog which covers complete line. Many specification charts and photos. — Arro Expansion Bolt Co.

Circle No. 86 on reply card, p. 11

NAILS in 372 sizes and types are covered in 24-page book. De-signed to fix standard files and binders. Gives complete data on lengths, gauges, head sizes and counts per pound. — Inde-pendent Nail & Packing Co.

Circle No. 87 on reply card, s. 11

POWER-DRIVEN fasteners are neatly illustrated, explained in 12-page catalog. Contains photos, easy-to-read technical information.—Ramset Fastening. Circle No. 28 on reply eard, p. 11

SCREW ANCHORS and nails are detailed in pamphlet here. Installation details and directions are given for clips used in fastening acoustical tiles.—E. G. Building Fasteners Corp.

Circle No. 89 on reply card, p. 11

Fences & gates

CHAIN LINK FENCE is sub-CHAIN LINK FENCE is sub-ject of four-page folder. Detail drawings show framework, fence and gate fittings, and typical erected fence section with all components required to install. -Robertson Steel & Iron Co.

Circle No. 90 on reply eard, p. 11

FARM GATES STEEL FARM GATES are covered in descriptive catalog. Includes material on cattle guard gates, steel fence braces, and picnic table iron sets.— Baumgartner Gate Factory, Inc. Circle No. 91 on reply eard, p. 11

Fireplaces, equipment FIREPLACE DIVIDER WALL combines fireplace with means of separating living areas. Four-page color brochure illus-trates use.—Condon-King Co.

Circle No. 92 on reply eard, p. 11

ENCLOSURES FIREPLACE that permit burning with coal, wood or gas are described and illustrated.—Thermo-Rite Mfg.

Circle No. 93 on realy eard, p. 11

FIREPLACE UNITS and accessories discussed in 12-page catalog. Includes construction details, specifications and sec-tion drawings on all five models.

Superior Fireplace Co.

Circle No. 94 on reply card, p. 11

are subject of descriptive litera-ture. Covers form dampers, cleanout doors, ash dumps and built-in barbecue products built-in barbecue products. — State Steel Industries, Inc.

Circle No. 95 on reply card, p. 11

ORNAMENTAL HOODS for the fireplace are illustrated in this brochure. Available in variety of finishes.—Robert H. Peterson Co.

Circle No. 96 on reply card. p. 11

PREFAB FIREPLACE, com-plete with its own chimney. Described in brochure with color photographs. Can be color photographs. Can be painted any color,-Vega Industries. Inc.

Circle No. 97 on reply card, p. 11

FLOOR PATTERNS, 45 different kinds, are picture in 10-page, full-color design bropage, full-color design bro-chure. Shows how vinyl asbestos tile can be used both as illus-trated and for original floor creations.-Johns-Manville.

Circle No. 98 on reply card, p. 11

UNDERLAYMENT FLOOR for tile, linoleum or carpeting. Four-page brochure details correct application methods from start to finish.—Weyerhaeuser.

Circle No. 99 on reply eard, p. 11

RANCH PLANK FLOORING is described in full-color, 16-page booklet. Flooring is ready-pegged, factory finished. Walnut pegs combine with eased edges.

E. L. Bruce Co.

Circle No. 100 on reply eard, p. 11

RESILIENT FLOORS are covered in 46-page, wire-bound booklet. Details vital factors in selection of floor and wall cover-ings. Includes technical data on preparation of underfloors. ongoleum-Nairn Inc.

Circle No. 101 on reply card, p. 11

SUBFLOOR and underlayment combination, made from 2-4-1 plywood, is covered in illusfolder. Features vencers and moisture-rethick sistant glue lines. Available in 4'x8' panels.—Georgia-Pacific.

Circle No. 102 on roply eard, p. 11

VINYL AND RUBBER flooring folder contains hundreds of color and design patterns. De tailed information and maintenance data appears.—American Biltrite Rubber Co.

Circle No. 103 on reply eard, p. 11

Framing, steel

INTERLOCKING steel framing details are given in 48-page booklet. Contains complete analysis of structural system. —Macomber, Inc.

Circle No. 104 on reply eard, p. 11

JOIST BRIDGING is subject of folder which outlines merits of the "Flash Bridge." Can be in-stalled after the floor is laid.— Flash Bridge Co.

Circle No. 105 on realy eard, a. 11

JOIST HANGERS made rust-resistant, galvanized steel. Folder demonstrates how they eliminate need for notching sub-flooring or beams. — F. D. Kees Mfg. Co.

Circle No. 106 on reply card, p. 11

OPEN WEB steel joints, L and S series, are fully described in 42series, are fully described in 42-page catalog. Features many load design tables, installation details and photos. Index covers many phases, facilitates location of specific subjects in excellently or-ganized literature.—Sheffield Div. Armco Steel Corp.

Circle No. 107 on reply card, p. 11

Framing, structural lumber

COMPONENT PARTS, cut to order, are subject of four-page folder. Pre-cut parts include roof trusses, cut plywood, wall panels, framing units, rafters and joists.—Wood Components. Circle No. 108 on reply card, p. 11

DESIGN MANUAL gives data on glued laminated arches, beams and trusses. Includes load and span tables, specifications. —Unit Structures, Inc.

Circle No. 109 on reply eard, p. 11

FRAMING SQUARE, designed to make roof framing easier and faster, well-illustrated in folder describing its uses. Device simplifies cutting.—Sharp's Mfg. Circle No. 110 on reply eard, p. 11

LAMINATED WOOD as

structural material is promoted in a 20-page, illustrated booklet. Covers engineering and design requirements for radial arches, beams, purlins.—Rilco Laminated Products.

Circle No. 111 on reply eard, p. 11

LONGSPAN JOISTS are illustrated in this 20-page brochure. Calls attention to advantages of one-piece fabrication.—Haven-Busch Co.

Circle No. 112 on reply card, p. 11

PRESSURE-TREATED lumber is covered in 16-page booklet. Economy and appearance are emphasized. Photos illustrate broad range of applications. Koppers Co. Inc.

Circle No. 113 on reply eard, p. 11

Garage door operators

DOOR OPERATOR is shown in small folder illustrating advantages. Automatically opens, closes and locks garage door.

—A. E. Moore Co., Inc.

Circle No. 114 on reply eard, a. 11

GARAGE DOOR OPERATOR features an all-transistor design. Four-page brochure illustrates installation inside auto and garage.—General Motors Corp.

Circle No. 115 on reply card, p. 11

TWO BASIC TYPES of garage door operators are discussed in this eight-page catalog. Installa-tion details are clearly presented. —Alliance Mfg. Co.

Circle No. 116 on realy eard, p. 11

Garbage disposers

DISPOSER for garbage is it-lustrated with parts in four-page foider. Advantages and op-erations of all features are clearly explained. — National Rubber Machinery Co.

Circle No. 117 on reply eard, p. 11

GARBAGE DISPOSER is sub-GARBAGE DISPOSER IS SUB-ject of four-page brochure which gives specifications. Fea-tures automatic aligning and self-locking assembly. Continu-ous feed operation.—In-Sink-Erator Mfg, Co.

Circle No. 118 on reply card, p. 11

Gas lamps

GAS LAMP diagramed in folder features base of spun aluminum, enamel finish with frosted globe. Comes in complete unit with 713" steel post.—Craftsman Copper Co., Inc.

Circle No. 119 em reply card, p. 11

OUTDOOR GAS LIGHTS and related accessories are illustrated in eight-page color catalog. Shows complete line, including models designed for multiple installation.—Arkla Air Conditioning Corp.

Circle No. 120 on reply card, p. 11

Gas ranges

BUILT-IN GAS RANGE in a variety of decorator colors ap-pears in four-page folder. Sug-gested installation is given. Optional top burner control regulates cooking temperatures automatically.—Hardwick Stove.

Circle No. 121 on reply card, p. 11

BUILT-IN GAS RANGE with nearly 10,000 cubic inches of cooking space is shown in four-page folder. Occupies only 24" of wall space.—Samuel Stamping of wall space.—Sa & Enameling Co.

Circle No. 122 on reply card, p. 11

COOKING TOP, electric builtin type, is illustrated in full-color brochure. Equipped with seven-stage, fast-heating surface elements. Tilt up for cleaning.— Thermador Electrical Mfg.

Circle No. 123 on reply eard, p. 11

GAS RANGE DESIGN is dis-cussed in folder featuring fullcolor illustrations. Advantages of various parts are listed. Exact dimensions given. — George D. Roper Corp. Roper Corp

Circle No. 124 on raply card, p. 11

Generators, portable

PORTABLE electric plants and how to select them are discussed in four-page folder. Points out features that make for better erformance, less maintenance.

Onan, Studebaker-Packard.

Circle No. 125 on reply card, p. 11

TWO LINES of generators are fully covered in well-illustrated, 12-page catalog. Gives full description, instructions for select-ing a generating plant.—Pioneer Gen-E-Motor Corp.

Girele No. 126 on reply eard, p. 11

Grillework

ALUMINUM GRILLEWORK is described in an eight-page brochure. Discusses non-modular grillework as means of light shows use as ornamentation.

— Integrated Ceilings & Grilleworks, Inc.

Circle No. 127 on reply card, p. 11

ORNAMENTAL METAL. WORK catalog is intended to facilitate selection. Contains scale drawings of suggested de-signs made from malleable iron castings .- Julius Blum.

Circle No. 128 on reply card, p. 11

Hardware, door, drawer & cabinet

CABINET HARDWARE and CABINET HARDWARE and accessories for every room in the house are colorfully pictured in 16-page catalog. Covers drawer slides, window hardware, disappearing shelf hardware, revolving shelf hardware.—Amerock Corp.

Circle No. 129 on reply card, p. 11

DECORATIVE DECORATIVE LOCKSETS shown in well-illustrated, 16-page color brochure. Available with cither push-button or turn-button locking. Durable finish protected by baked-on lacquer.—Medalist Hardware.

Circle No. 130 on reply card, p. 11

DOOR AND DRAWER hardware is main feature of 20-page catalog. Items from pulls to catches are shown in color drawings, with specifications for all.—Ajax Hardware Corp.

Circle No. 131 on reply card, p. 11

DOOR HARDWARE is colorfully illustrated in this catalog. Contains data on exit devices, door closers, mortise lock and hand sets.—Sargent & Co.

Circle No. 132 on reply eard, p. 11

DOOR HARDWARE, with emphasis on locksets, are subject of 12-page brochure. Many illus-trations in color.—Western Lock Mfg. Co.

Circle No. 133 on reply card, p. 11

FASCIA TRACK SET with twin wheel hangers and door stop for sliding door. Shown in four-page brochure illustrating method of installation. — John Sterling Corp.

Circle No. 134 on reply card, p. 11

FOLDING AND SLIDING door hardware are among many items covered in 28-page catalog. Gives detailed description, prices on almost 1,000 products. —Leigh Building Products.

Circle No. 135 on reply card, p. 11

HARDWARE for the builder is discussed in condensed catalog giving detailed data. Text and illustrations of lock designs and functions are among features. —Schlage Lock Co.

Circle No. 136 on reply eard, p. 11

HARDWARE SPECIALTIES are covered in catalog showing complete line. Drawer slides, standards and brackets, and folding door hardware are folding door hardware are among subjects.—Knape & Vogt among su Mfg. Co.

Circle No. 137 on regly card. n. 11

LOCKSETS and other locking and latching hardware for com-mercial and residential build-ings covered in full-color, 12-page catalog. Thirty-one func-tions are listed. All knob designs are illustrated.—Challenger Lock Co.

Circle No. 138 on reply card. p. 11

LOCKSETS for every door in the house are main subject of colorful catalog, Covers screen and combination door locks, door closers, etc.—Dexter Indus-

Circle No. 139 on reply eard, p. 11

LOCKSETS line illustrated in ractive four-color brochure. addition, installation aids, attractive rosettes and miscellaneous builder's hardware its covered.—Kwikset Sales. items are

Circle No. 140 on reply card, p. 11

MERCHANDISING KIT designed to help builder promote open house activities. "Haropen house open house activities. "Har-mony in Hardware" is theme of kit material. Contains hand-out and direct mail folders.— Medalist Hardware.

Circle No. 141 on reply card. p. 11

ROLLER BEARINGS wooden drawers shown in folder giving directions for installa-tion. Two bearings are nailed to bottom cross rail at drawer opening—Junior-Pro Products.

Circle No. 142 on raply card, p. 11 SLIDING DOOD HARDWARE

shown in eight-page condensed catalog with illustrations. Load capacity up to 175 lbs. for 1" doors and up.—Grant Pulley & Hardware Corp.

Circle No. 143 on reply card, p. 11

Heaters

DUCT HEATERS for DUCT HEATERS for zoned heating are described in 40-page booklet. How to use electricity for heating is theme. Each heater handles 5.7 kw for an output of 19,500 Btuh.—Lennox Industries Inc.

Circle No. 144 on reply card, p. 11

ELECTRIC HEATING UNITS are discussed in eight-page color booklet. Provides application, specification data as well as con-struction details. — Commercial Controls.

Circle No. 145 on reply ears, p. 11

FAN-FORCED heating unit, built for occasional or perbuilt for occasional or per manent heat, is illustrated in four-page brochure. Quiet mo-tor does not need lubrication. Has automatic safety switch.

—Markel Electric Products.

Circle No. 146 on reply card, p. 11

SEALED VENT HEATER pro-vides gas heat in attics, base-

ments, added rooms. Four-page brochure illustrates uses, pro-vides size guide.—H. C. Little. Circle No. 147 on reply eard, p. 11

VENTED GAS HEATER, using heat from exterior of building is covered in small folder. Heater fits on any outside wall, eliminates need for chimney. —Chattanooga Royal Co.

Circle No. 148 on realy eard, p. 11

Heating & cooling accessories

AIR CLEANER sales kit is now available. Contains sales presen-tation, consumer brochures, drop-in ads....Minneapolis Honell Regulator Co.

Circle No. 149 on reply eard, p. 11

BALANCING and purging valve for two-circuit hydronic systems is catalog subject. Typical instal-lations are pictured.—Bell & Gossett Co.

Circle No. 150 on reply card, p. 11

FIBER DUCT for slab peri-meter heating, cooling. Four-page brochure also shows uses for combination heating and for combination heating and cooling systems. Duct can be fitted at job.—Sonoco Products.

Circle No. 151 on reply card, p. 11

MINERAL REMOVER to keep furnace humidifiers operating in perfect condition. Folder tells how it removes scale-forming minerals from water supply.

—General Water Conditioning.

Circle No. 152 on reply card. p. 11

REGISTERS GRILLES and diffusers are some of 3 major items discussed in this catalog. Metal clothes chute doors and door louvers are also covered.—Auer Register Co.

Circle No. 153 on reply card, p. 11

ROOM THERMOSTATS are discussed in four-page, full-color folder. Back page is fully detailed, lists specifications and other pertinent matter on types available.—White-Rogers Co.

Circle No. 154 on reply card, p. 11

Heating & cooling systems

AIR CONDITIONING UNIT, through-the-wall type, features hermetically sealed refrigerant cycle chassis. Six-page brochure illustrates design advantages of steel cabinet, aluminum fixed louvers and frame.-Modine.

Circle No. 155 on reply card, p. 11

COMPLETE LINE of commercial refrigeration equipment is presented in 16-page catalog. Contains pictures, full descrip-tions and concise tables. — Mc-Quay, Inc.

Circle No. 156 on reply card, p. 11

DUAL VECTOR for heating and cooling with water is dia-grammed in four-page bulletin inside thick catalog. Controlled either automatically or man-ually.—Kritzer Radiant Coils.

Circle No. 157 on reply eard, p. 11

HEATING and cooling catalog gives specs and illustrations on complete line. Covers gas and oil burners, furnaces, gas unit heaters, outdoor gas lamps and central air conditioning equip-ment.—Roberts-Gordon.

Circle No. 158 on reply eard, p. 11

REFRIGERATION equipment for air conditioning reference chart lists more than 195 units. Also includes 166 a/c products 32 gas and oil-fired furnaces. —Typhoon Air Conditioning.

Circle No. 159 on renly eard, p. 11

WINTER HEATING and sumwinter Healing and sum-mer cooling equipment are main subject of catalog here. Each piece of equipment has accom-panying photo, description and specifying data—Mueller Clima-trol Div

Circle No. 160 on reply card, p. 11

AIR WINTER AIR CONDI-TIONER pictured in colorful folder. Series features unclut-tered exterior casing, Radiator is baffled to reduce stack tem-perature and save fuel.—Waterman-Waterbury Co.

Circle No. 161 on reply card, p. 11

ZONED HYDRONIC and electric heating and cooling equipment. Covered in 12-page log giving descriptions, techni-cal data and installation sugges-tions.—Edwards Engineering.

Circle No. 162 on reply card, p. 11

Heating systems

BASEBOARD HEATING and accessories are subject of four-page brochure for builder and remodeler.-Rittling Corp.

Circle No. 163 on reply eard, p. 11

ELECTRIC HEATING equipment described in full color, six-page brochure. Features operat-ing data on forced air base-board, convection baseboard, wall insert and bathroom heat-ing units.—Hunter Div., Rob-bins & Myers, Inc.

Circle No. 164 on renty eard, p. 11

ELECTRIC HEATING equipment for residential, commer-cial applications. Contains com-plete information. — Edwin L. Wiegand Co.

Circle No. 165 on reply card. p. 11

GAS-FIRED winter air condi-GAS-FIRED winter air condi-tioner, designed for homes with-out basements. Comes com-pletely assembled and wired. Can be installed on concrete slab or crawl space foundation. Described in thick catalog with specifications.—Bard Mfg. Co.

HEAT PUMP is described and method of installation shown in six-page brochure. Available in two-ton capacities and up for residential, commercial use.— Perfection Div., Hupp Corp.

Circle No. 166 on reply card, p. 11

Circle No. 167 on reply sard, p. 11

HOT WATER HEAT system without plumbing is explained in four-page brochure. Electric baseboard heat system available in floor model. Units are built into floor-recessed cabinets.-In-ternational Oil Burner Co.

Circle No. 168 on reply eard, p. 11

OIL BURNER combines control of turbulation with amount of air admitted. Catalog sheet explains how fingertip micrometer makes accurate air adjustment easy. Complete brochure covers furnaces and summer air conditioning equipment. conditioning equipment. — Arm-strong Furnace Co.

Circle No. 169 on reply card, p. 11

Circle No. 170 on reply card, p. 11

ROTARY BURNERS are de-scribed in bulletin here. Fully automatic, metering pump unit fires on oil only, gas only or combination gas and oil.—5. T. Johnson Co.

Circle No. 171 on reply sard, p. 11

Incinerators

ELECTRIC INCINERATOR for basement, utility room or garage. Folder describes performance, gives specifications. Capacity: 1.5 bushels.—Calcinator Corp.

Circle No. 172 on reply eard, p. 11

signed to blend with modern home layouts described in 16-page brochure. Two-burner unit is refractory lined, stave SMALL INCINERATOR, deis refractory lined, stays cool on outside. Features automatically controlled gas system.—Brule Incinerators

Circle No. 173 on reply card, p. 11

Instruments, surveying

COMPLETE LINE of instru-ments, tripods and accessories are described and pictured. are described and pictured. Level-transits are available in a wide range of prices and models.

—David White Instrument Div.

Circle No. 174 on reply card, p. 11

SURVEYING INSTRUMENTS SURVEYING INSTRUMENTS are thoroughly covered in well-organized catalog. Engineering supplies, field equipment and drafting supplies are completely illustrated.—Warren-Knight Co. Circle No. 175 on reply eard, p. 11

Insulation

BUILDING INSULATION is summarized in 42-page bro-chure. Filled with data for archi-tects, engineers, students, build-ers and buyers.—Insulation Board Institute.

Circle No. 176 on reply eard, p. 11

FOAMED PRODUCTS, for use in comfort insulation, are of-fered in this 16-page brochure. Many tables, photos and details appear.—Dow Chemical Co.

Circle No. 177 on reply card, p. 11

INSULATING fiberboard sheathing is described in 12-page brochure. Lists results of racking-strength tests conducted under FHA specifications. Discusses ap-plication of various exterior sur-faces.—Celotex Corp.

Circle No. 178 on reply card. p. 11

INSULATING GLASS for windows and window walls is subject of semi-technical folder. Gives product characteristics, standard sizes and limitations.— Libbey-Owens-Ford Glass Co.

Circle No. 179 on reply eard, p. 11

INSULATION GUIDE for electric heating is subject of 16-page brochure. Heavily illus-trated and detailed, Reflects the "R Factor" information devel-"R Factor" information developed by the Mineral Wool Assn. and the National Assn. of Electrical Manufacturers.—National Gypsum Co.

Circle No. 180 on reply card, p. 11

NAIL-BASE SHEATHING of high density is featured in this high density is featured in this 12-page booklet. Among advan-tages cited are strength, low thermal conductivity, high wind resistance, dimensional stability and vapor permeability.—Bar-rett Div., Allied Chemical Corp.

Circle No. 181 on reply card, p. 11

POLYSTYRENE FOAM is subject of illustrated folder which plays up the wide range of inapplications. Gilman Bros. Co.

Circle No. 182 on reply card, p. 11

INSULATION THERMAL THERMAL INSULATION products in two basic liner types are covered in concise folder. Chart presents specifications in easy-to-read form. — Wood Conversion Co.

Circle No. 183 on reply eard, p. 11

Intercoms

INTERCOM and sound system brochure features wiring and technical information. Fully transistorized system includes transistorized system includes AM-FM radio, electronic door chime.—Rittenhouse Co., Inc.

Circle No. 184 on reply eard, p. 11

INTERCOM SYSTEM is de-INTERCOM SYSTEM is de-scribed in four-page brochure. Seven-station master unit comes equipped with outlet for elec-trical appliance plug-in and jack for piping phonograph music.— Roberts Mfg. Co.

Circle No. 185 on reply eard, p. 11

INTERCOM SYSTEM combines FM-AM radio with clock-timer, hi-fidelity tone and appliance outlet. Described in colored folder. Available in choice of colors.—Talk-A-Radio Sales.

Circle No. 186 on reply card, p. 11

INTERCOM SYSTEMS are described in this literature. Spe-cial section for intercom, call and music systems for medical buildings. Also covers radio for motels.—Flush Wall Radio Co. Circle No. 187 on reply eard, p. 11

TRANSISTORIZED voice fre-TRANSISTORIZED voice frequency amplifers are described in four-pager. Operational advantages are discussed as well as applications. — Lynch Communication Systems Inc.

Circle No. 188 on reply eard, p. 11

Kitchen cabinets

COLORED CABINETS for the kitchen are featured in twelve-page booklet. Photos show outiding features of cabinet line. Mengel Co.

Circle No. 189 on reply card, p. 11

BRONZEGLOW BIRCH kitchen cabinets are thoroughly discussed in six-page foldout. Many accessories are also pictured.—H. J. Scheirich Co.

Circle No. 190 on reply card, p. 11

EFFICIENCY KITCHENS are fully covered in 12-page, com-pact catalog. Shows various models of gas and electric combination appliances. Dimensions are given.—Acme National Sales.

Circle Ho. 191 on reply eard, p. 11

KITCHEN CABINET SET of hardwood is subject of six-page brochure which gives sizes. Has solid birch stable core door and drawer fronts. Interiors com-pletely finished. — Connor Lum-ber & Land Co.

Circle No. 192 on reply card, n. 11

KITCHEN NOOKS are covered in colorful literature. Space-saving seating, available in Con-temporary, Traditional and Early American styles, is fully illustrated.—Dormalux Co. Inc.

Circle No. 193 on reply card, p. 11

SCULPTURED SPICEWOOD line of kitchen cabinets is fully described in colorful catalog. Covers such features as full pan elling of cabinet doors, drawer faces and adjustable shelves in all wall cabinets_I-XL Furniture Co.

Circle No. 194 on reply card, p. 11

WALL CABINETS for kitchens, wall CABINETS for KICKERS, made from red birch, are fea-tured in four-page color bro-chure. Finished both outside and inside, with semi-concealed hinges.—Kitchen Kompact.

Circle No. 195 on reply eard, p. 11

WOOD KITCHEN cabinets are subject of folder designed to serve as loose-leaf type file for builders, remodelers. Comes with special kitchen planning folder.

—Boro Wood Products.

Circle No. 196 on reply card, a. 11

Laundry tubs

FIBERGLASS LAUNDRY TUB. trimmed with stainless steel, is described in four-page brochure. Hoses and connections are con-Hoses and connections are con-cealed at rear. Fits all automatic -Wessels Co.

Circle No. 197 on reply card, p. 11

LAUNDRY TUBS in two models are feature of this bro-chure, Gives complete specifica-tions for line...E. L. Mustee & Sons, Inc.

Circle No. 198 on reply card, p. 11

Lighting fixtures

ALUMINUM LOUVER fea-tured in fluorescent lighting catalog. Complete engineering data, cross sections and dimendata, cross sections and dimen-sional data are given.—Powerad

Circle No. 199 on reply card, p. 11

LIGHT CONTROL to regulate light intensity is shown in 24-page, illustrated brochure. Designed to replace ordinary on-off switch.—Superior Electric.

Circle No. 200 on reply card, p. 11

LIGHT DIFFUSING listed in colorful, eight-page brochure. Can be used to figure the use and approximate instal-lation costs of luminous ceilings. -Luminous Ceilings Inc.

Circle No. 201 on reply card, p. 11

LIGHTING FIXTURES cribed and illustrated in thick catalog. Hundreds of fixtures in all sizes, shapes and styles ap-pear in color.—Jay Lighting.

Circle No. 202 on reply eard, p. 11

LIGHTING FIXTURES shown along-side great paint-ings which inspired customized designs. Descriptions and specs appear in chart form.—Progress Mfg. Co.

Circle No. 203 on reply eard, p. 11

PACKAGED luminous ceiling that provides wall-to-wall light source is outlined. Gives out-standing advantages, suggested uses and installation ideas. -Arterest Products Co. Inc.

Circle No. 204 on reply eard, p. 11

Materials handling equipment

DERRICKS AND HOISTS are featured in 16-page catalog, Also covers winches—gas, electric and hand powered. Gives complete data—Sasgen Detrick Co.

Circle No. 205 on reply card, p. 11

EQUIPMENT FOR ROOFERS and contractors is contained in this catalog. Includes beams and power hoists. Improved hydrau-lic power shovel is shown. — Smith Hoist Mfg. Co., Inc.

Circle No. 206 an reply card. a. 11

LIFT TRUCKS are described in condensed catalog. Covers complete line of gas-powered trucks.—Hyster Co.

Circle No. 207 on reply card. p. 11

PORTABLE HOIST, featuring hydraulic erection by one man in one minute, is covered in this brochure. Designed to sweep up 3000-lb. load at 150 ft. per minute. — Tubular Structures minute. — Tubul Corp. of America.

Circle No. 208 on reply card, p. 11

SIMPLIFIED catalog-price list shows shovels, spades and scoops. Illustrates each product and lists all pertinent ordering information in one location.

—Wood Shovel & Tool Co.

Circle No. 209 on reply eard, p. 11

TWO-WHEEL HAND TRUCKS are covered in four-page, illustrated folder giving specifica-tions. A variety of different de-signs are pictured and described.

—Harper Trucks, Inc.

Circle No. 210 on reply card, p. 11

Metal lath

CASING BEADS to create neat CASING BEADS to create neat flushframe for doors, windows and other openings. Four-page brochure on metal specialties shows how they can be used as terminals for plaster. — Inland Steel Products Co.

Circle No. 211 on reply eard, p. 11

METAL LATH and furring catalog outlines basic design criteria for lathing of hollow and solid partitions. Also ceilings, furring, stucco, plaster reinforcements. — Metal Lath Mfrs. Assn.

Circle No. 212 on reply card, g. 11

METAL SPECIALTIES used in METAL SPECIALTIES used in construction are shown in eight-page catalog. More than 40 items appear with specifications. Includes framing anchors, tim-ber connectors, steel bridging, ventilators, etc.—Cleveland Steel Specialty Co.

Circle No. 213 on reply card, p. 11

STEEL PLASTER GROUNDS, including casing and corner beads, regular and expanded beads presented in four-pager. Includes simple details and specifications.—Casings, Inc.

Circle No. 214 on reply card, p. 11

Ovens

BUILT-IN GAS and electric ovens are colorfully illustrated. Folder gives brief specifications on matched kitchen appliances. Covers ranges, dishwashers, ventilating hoods and garbage disposers.—Chambers Built-Ins.

Girele No. 215 on reply eard, p. 11

BUILT-IN OVENS and tops are featured in colorful folder. Ap-pliances come in six shades. Discusses 14 oven models, 17 drop-in top units.—Tappan Co.

Circle No. 236 on reply eard, p. 11

CUSTOM BUILT-IN oven is subject of four-page folder. Clock-controlled unit has oven signal light, one-hour electric timer, control panel lighting.

—Magic Chef.

Circle No. 217 on reply eard, p. 11

DOUBLE ELECTRIC OVEN. built-in, with both ovens for bake or broil. Shown in fourpage color folder with dimen-sions.—Gray & Dudley.

Circle No. 218 on reply card, p. 11

INDOOR CHARCOAL OVENS. designed to broil without flame, are covered in brochure showing portable models.-Hasty-Bake.

Circle No. 219 on reply sard, p. 11

Paints, finishes, coatings

PAINT, VARNISH, stain and enamel products are discussed in handy, pocket-size catalog. Each item is indexed for speedy reference, described in concise manner.—Pratt & Lambert,

Circle No. 220 on reply eard, p. 11

PAINTING ECONOMY is subject of handy booklet. Three basic areas for savings are stressed: labor, material and durability.—Barreled Sunlight.

Circle No. 221 on reply card, p. 11

PROTECTIVE SURFACINGS PROTECTIVE SURFACINGS for walls and floors are depicted in eight-page catalog. Applica-tions described include cement finishes, floor toppings, pool coatings. Also covers cement ad-hesives.—Preco Chemical Corp.

Circle No. 222 on reply card. p. 11

WOOD PRESERVATIVE line is covered in eight-page booklet. Gives specific applications. Characteristics of Cuprinol are described along with its ad-vantages in all phases of pro-tecting and preserving wood.— Darworth Inc. Darworth Inc.

Circle No. 223 on roply card, p. 11

WOOD STAINS, for exterior and interior use, pictured in compact, full-color folder. Cov-ers 48 stains in all.—Olympic Stained Products Co.

Circle No. 224 on regly eard, p. 11

Paneling

ASBESTOS building board is one of many products illustrated in this 12-page catalog. Such materials as shingles, siding and tile are colorfully illustrated.—Ruberoid Co.

Circle No. 225 on reply card, p. 11

BUILDING PANELS, of fiber-BUILDING FANELS, or mer-glass and nylon reinforced plas-tic, are shown in eight-page folder. Construction uses in-clude patios, fences, luminous ceilings.—Filon Plastics Corp.

Circle No. 226 on reply eard, p. 11

COMPLETE LINE of hardboards for interior and exterior building is presented in colorful brochure.—Weyerhaeuser Co.

Circio No. 227 on reply card. p. 11

DECORATIVE LAMINATE is thoroughly covered in 22-page technical data brochure. Many applications of Panelyte are shown in detail, and complete specs are given. Material is ex-cellently organized.—3t. Regis Paner Co.

Circle No. 228 on reply eard, p. 11

HARDBOARD portfolio in-cludes brochure for each type of hardboard. Also gives nailing and finishing data.—Forest Fiber

Circle No. 229 on reply card, a. 11

HARDWOOD PANELS are subject of small, four-color bro-chure. Available in many woods and finishes.—Industrial Ply-wood Co., Inc.

Circle No. 230 on reply card, p. 11

HARDWOOD PLYWOODS are featured in 12-page, colorfully illustrated brochure. Four paneling types are described and ex-amples of each are pictured. —Roddis Div., Weyerhaeuser.

Circle No. 231 on reply card, p. 11

LUXURY LOOK (an aim of building with hardboard) shown in six-page folder. Colored il-lustrations show natural walnut, oak grain and platinum walnut finishes.—Abitibi Corp.

Circle No. 232 on reply card, p. 11

PANELING made with a plastic for walls and ceilings. Eight-page color samples. Stays clean with only occasional damp cloth wip-ing.—Marsh Wall Products.

Circle No. 233 on reply card, p. 11

PHILIPPINE MAHOGANY for interiors appear in many shades in this full-color folder. Also con-tains detailed instructions for fin-ishing. — Philippine Mahogany

Circle No. 234 on reply eard, p. 11

PINE PANELING is covered in full-color booklet. Describes new paneling patterns available in Arkansas soft pine. — Fordyce soft pine. - Fordyce Lumber Co.

Circle No. 235 on reply card, p. 11

TEXTURED PLYWOOD for interiors featured in wide-ranging 34-page catalog. Shows deep, random-width grooves cut full length on the panel. Butt joints and nail holes are concealed. -United States Plywood Corp.

Circle No. 236 on reply card, p. 11

TRANSLUCENT PANELS, of TRANSLUCENT PANELS, of glass-reinforced plastic, are dis-cussed in four-page folder. Ap-plications include roofing, parti-tions, fences, screens and shower doors.—Alsynite Div.

Circle No. 237 on reply eard, p. 11

WALL AND CEILING panels of translucent fiberglass are ex-plained in descriptive folder. Architectural specification guide is featured.—Barclite Corp.

Circle No. 238 on reply eard, p. 11

WALL COVERINGS in a va WALL COVERINGS in a variety of designs are described in four-page folder. Vinyl material is portrayed with eye toward decorating sahemes. Range is from tone-on-tone harmonies to metallic contrasts.

—L. E. Carpenter & Co., Inc.

Circle No. 239 on reply card, p. 11

WALL PANELING, prefinished, is colorfully shown in four-page folder. Gives applications, installation suggestions. - Southwood Corp.

Circle No. 240 on reply card, p. 11

Planning

BASEMENT PRE-PLANNING booklet features practical, flex-ible basement plans. Profusely illustrated. Tells how to plan light, ventilation, etc.—Bilco Co. Circio No. 241 on reply card, p. 11

BATHROOM PLANNING booklet contains best ideas of "dream bathroom" contest dream bathroom" contests.

Decorator color patches appear, along with a variety of plans.

Eljer Div.

Circle No. 242 on reply card, p. 11

HOUSE PLAN catalog books that illustrate hundreds of well-planned homes in all price ranges. Books cover all sizes and styles. — Nationwide Plan Book Co.

Circle No. 243 on reply card. p. 11

KITCHEN IDEA BOOKLET discusses "how to plan a trend setting kitchen" in 24 color pages. Full of photos on outstanding kitchens throughout the country.—Revco, Inc.

Circle No. 244 on reply card, p. 11

Plumbing, water supply COPPER PIPE and tube products for plumbing, heating and air conditioning are described here. Thick manual contains many tables.—Anaconda American Brass Co.

Circle No. 245 on reply card, p. 11

PERFORATED PIPE described along with its uses and direc-tions for installation in 18-page color booklet. Pipe is of bituminized-fibre construction __ Brown

Circle No. 246 on reply card, p. 11

SELF-PRIMING centrifugal SELF-PRIMING
pumps and fire pumps are
among catalog subjects. Also
covers electric-powered beltdriven pumps and masonry
splitters—Rice Pump & Machinery Co.

Circle No. 247 on reply card, p. 11

s are folder SELF-PRIMING PUMPS analyzed in four-page folder that explains advantages. Light weight units are shown in de-tail.—Midland Products Co.

Circle No. 248 on reply card. p. 11

SEWAGE TREATMENT plant Sewage IREAIMENT plant for small subdivisions is dis-cussed in thick manual. Plant comes in 27 standard sizes. Manual contains notes on de-sign, engineering data, installa-tion.—Smith & Loveless.

Circle No. 249 on reply card, p. 11

SUBMERSIBLE PUMP is subject of four-page folder. Im-peller and diffuser assemblies are made from new non-absorbent synthetic corrosion-resistent ma-terial.—Flint & Walling.

Circle No. 250 on reply card, p. 11

WELL SUPPLY equipment catalog ranges from adapters to yard hydrants in 50 pages. Fea-tures alphabetical and trade number index.—Clayton Mark.

Circle No. 251 on reply card, p. 11

Plywood

DECORATIVE PLYWOOD is become to 20-page catalog. Covers factory inished hard-wood, softwood, textured and imported plywood paneling types.—Georgia-Pacific Corp.

Circle No. 252 on reply eard, p. 11

PLYWOOD for cabinets is among subjects of 12-page trade association booklet. Lists hardwood plywood manufacturers in U.S. and Canada. — Hardwood Plywood Institute.

Circle No. 253 on reply card. p. 11

PLYWOOD COMPONENT research house, a complete case history, covered in well-illus-trated, 16-page brochure. Gives details of planning, design and engineering of six varieties of components. — Douglas Fir Ply-

Circle No. 254 on reply card, p. 11

VARIETY of plywoods are de-picted in full-color, 16-page cat-alog. Gives complete specifica-tions for line in up-front section. —Simpson Timber Co.

Circle No. 255 on reply eard, p. 11

Range hoods

DUAL-BLOWER HOOD for kitchen range, pre-assembled at factory, is shown in four-page color folder. Has aluminum filters.—Brown Mfg. Co.

Circle No. 256 on reply eard, p. 11

DUCTLESS HOODS are described in four-page catalog which explains advantages of product. Five construction features are shown. Includes in-stallation, maintenance and operation data - Ductless Hood.

Circle No. 257 on realy eard, n. 11

QUALITY VENTILATOR, factory wired and complete in one unit, pictured in eight-page brochure giving diagrams. Hood has built-in fan, filter to spread air pickup and r —Vent-A-Hood Co. reduce noise.

Circle No. 258 on reply card, p. 11

RANGE HOODS and ventilators are specified in four-page folder. Features suggested multi-vent installations for built-in ranges and ovens.—Stewart In-dustries, Inc.

Circle No. 259 on roply card, p. 11

Reinforcing materials

DRYWALL ACCESSORIES are explained in six-page brochure. Stress is on reinforcement and true alignment that installation of products contributes in dry-wall construction.—Beadex Sales

Circle No. 260 on reply eard, p. 11

MASONRY WALL reinforcement device features trussed design that increases wall strength. Technically described in four-page folder. Data on self-sealing neoprene rapid control joint is also included.—Dur-O-Wai.

Circle No. 261 on reply card, p. 11

MORTAR JOINT reinforce-ment is subject of this four-page folder. Drawings show various applications.—Lenawee Peerless.

Circle No. 262 on reply card, p. 11

Roofing & accessories

ASBESTOS CEMENT structural sheet that bends over obstruc-tions and around corners is de-scribed in four-pager.—Keasbey & Mattison Co.

Circle No. 263 on resty card. n. 11

ALUMINUM GUTTER SYS-TEM is described in six-page folder which gives installation methods.-Aluminum Co.

Circle No. 264 on renty card. n. 11

FLASHINGS for all building.apper-colored brochure. Compre-hensive chart simplifies specify-ing task.—Wasco Products Inc.

Circle No. 265 on reply card, p. 11

LAMINATED roof decking is subject of 20-page booklet. Covers such factors as applica-tion, engineering and design data, and suggested specifica-tions.—Potlatch Forests Inc.

Circle No. 266 on reply eard, p. 11

PLASTIC roofing system designed for roofs with unusual contours. General specifications are included for roof coating on concrete as well as coating on plywood.—Caram Mfg. Co.

Circle No. 267 on reply card, p. 11

PRECAST CONCRETE roof and floor channels are covered in four-page catalog. Charts show allowable superimposed loads in pounds/4q. ft.—George Rackle & Sons Co.

Circle No. 268 on reply eard, p. 11

ROOF SYSTEMS are described in fact-packed, eight-page cata-log. Gives detailed data on lightweight roof decks and roof insulation.—Zonolite Co.

Circle No. 269 on reply card, p. 11

TERNE ROOFING is subject of eight-page booklet with many details and photos. Advantages of terne are listed together with physical specifications.—Follans-bee Steel Corp.

Circle No. 270 on reply card, p. 11

VERMICULITE CONCRETE roof insulation is subject of three technical sheets. Two give data and short form specification for the 1:6 and 1:8 mix. Third presents load tables.—Vermiculite Institute.

Circle No. 271 on reply eard, p. 11

WIDE RANGE of products is covered in this eight-page, illus-trated brochure. Describes roof-ing shingles, built-up roofing, siding, etc.—Philip Carey.

Circle No. 272 on reply card, p. 11

Roofing, shingles
ASPHALT SHINGLES, mineral reinforced to provide extra pro-tection and long life, are pre-sented in colorful 12-page book-let.—Bird & Son, Inc.

Circle No. 273 on reply card, p. 11

CEDAR SHAKE SIDING is discussed in full-color folder. Gives merits of prefinishing. Technical data contained on separate sheet. Shake-A-Ply Co.

Circle No. 274 on reply card, p. 11

RED CEDAR SHINGLES and machine-grooved shakes are covered in colorful pamphlet. Four-page sheet provides infor-mation on selection, application. —Red Cedar Shingle Bureau.

Circle No. 275 on reply eard, p. 11

RED CEDAR UNITS for use in building weathertight shingle sidewalls are offered in a fourage brochure. Explains fea-ures that speed construction.

Shakertown Corp.

Circle No. 276 on reply card, p. 11

Scaffolding

ADJUSTABLE TRESTLE of steel comes in eight sizes, rang-ing from 16" to 12'. Each has height adjustments at approxi-mately 3' intervals.—Steel Scaf-folding Co., Inc.

Circle No. 277 on reply card, p. 11

SCAFFOLDING, featuring rap-id locking, is shown in 20-page, illustrated booklet. Covers many phases.—Waco Mfg. Co.

Circle No. 278 on reply card, n. 11

Siding

ALUMINUM SIDING, horizontal and vertical, is shown in four-page folder. Installation details facilitate working with product.-Keystone Alloys.

Circle No. 279 on reply card. p. 11

ALUMINUM SIDING brochure shows typical installations. Fourcolor booklet also presents de-tails of construction, shows six colors available....Season-All.

Circle No. 280 on reply card, g. 11

BEVEL SIDING is one of many lumber products depicted 20-page booklet. Available Western Red Cedar, S Western Red Cedar, Sitka Spruce, White Fir, Douglas Fir and West Coast Hemlock.—West Coast Eumbermen's Assn.

Circle No. 281 on reply eard, p. 11

CLAPBOARD SIDING of aluminum is presented in well-organized pamphlet. Accessories and application of the siding are illustrated.—Lyf-Alum, Inc.

Circle No. 282 an renty eard, s. 11

SIDING, offered in a wide range of styles, is depicted in four-color, eight-page book. —Masonite Corp.

Circle No. 283 on reply card. p. 11

SIDING bulletin discusses paint-primed redwood siding. Cost-savings are detailed. — Pacific Lumber Co.

Circle No. 284 on reply eard, p. 11

SINK AND COUNTER made from stainless steel. Four-page brochure shows entire top— front flange, deck surface and backsplash—formed from one metal sheet.—Just Mfg. Co.

Circle No. 285 on reply eard, p. 11

STAINLESS STEEL SINK subject of four-page, illustrated brochure. Pictured with precision-formed bottom and special rim to minimize splash. — Aeronca Mfg. Corp.

Circle No. 286 on reply card, p. 11

TWIN BOWL SINK of polished stainless steel is offered in six sizes. Illustrated folder gives sizes. Illustrated forder gives specifications and diagrams. Narrow center partition and oval-shaped bowls. — Jensen-Thorsen Corp.

Circle No. 287 on reply card, p. 11

Specialties, misc.

BUILT-IN CENTRAL cleaning system is thoroughly covered in four-page folder. Uses stationary vacuum power unit.—H-P Products Inc.

Circle No. 238 on reply eard, s. 11

CLOTH LETTER BANNERS, to advertise new homes, are shown in four-page brochure. Any message, including num-Any message, including num-bers, can be furnished and disof ways. played in hundreds

—Midland Plastics Co.

Circle No. 289 on reply card, p. 11

DISAPPEARING stairways in four wood models are illus-trated in well-organized folder. Units give easy access to up-per floor,—Bessler Disappearing Stairway.

Circle No. 290 on reply card, p. 11

GLASS BLOCKS, with emphasis on color, are subject of this 16-page, illustrated booklet. Stress is placed on light control, noise reduction and ease of in-stallation.—Owens-Illinois.

Circle No. 291 on roply eard, p. 11

METAL SPECIALTIES in garden and patio furniture are among subjects covered in 32-page catalog. Features many ornamental iron products.—Ten-nessee Fabricating Co.

Circle Ho. 292 on reply eard, p. 11

SUBSTITUTE GLASS items, such as plastic coated acreen cloth, are featured in thick catalog. Swatches of materials are enclosed. Also covers di knockers, etc.—Peerless Mfg.

Circle No. 293 on reply eard, p. 11

Switches, switching systems

LOW-VOLTAGE switching sys-tems are subject of brochure. Covers all phases—from design-ing system to final installation. —Touch-Plate Mfg. Corp.

Circle No. 294 on reply card, p. 11

Circle No. 295 on reply eard, p. 11

SELECTOR SWITCH offered in 16-page book on remote con-trol wiring. From one location, turns up to nine lights on or off.—General Electric Co.

Circle No. 296 on reply card, p. 11

Tile, floor, wall & ceiling

CERAMIC TILE is thoroughly examined in thick catalog. Il-lustrates complete color line of glazed, unglazed and quarry tile. Specifying material gives

types, descriptions and uses. -American Olean Tile Co.

Circle No. 297 on reply card, p. 11

CERAMIC TILE workbook (40 pages) describes, illustrates glazed wall tile, unglazed and glazed ceramic mosaics, quarry tile and bathroom accessories. Mosaic Tile Co.

Circle No. 298 on reply card, p. 11

CERAMIC TILE merchandising program is subject of large brochure. Many photos show how program has worked in past.—Stylon Corp.

Circle No. 299 on reply eard, p. 11

CLAY ROOFING TILES are subject of this catalog. Gives many patterns, textures, colors. —Ludowici-Celadon Co.

Circle No. 300 on reply card, p. 11

CORK TILE and other flooring products are covered in small brochure. Shows selection and advantages of some of the terns available.—Dodge Cork

Circle No. 301 an realy card. a. 11

AND WALL TILE FLOOR FLOOR AND WALL TILE
folder colorfully present three
lines, with emphasis on decorator tile. Tile selector chart
facilitates choice of products.

—Pomona Tile.

Circle No. 302 on really card. p. 11

FLOOR TILE cushioned in a FLOOR TILE cushioned in a rubber grid is discussed in col-orful four-page folder. Advan-tages of flooring are described, and 12 patterns are shown. — United States Ceramic Tile Co.

Circle No. 303 on reply card, p. 11

RESILIENT FLOOR TILE made from vinyl asbestos. Eight-page, illustrated booklet shows page, illustrated uookiet shows colors and patterns. Features dense, closely textured surface. Architectural specifications are included.—Azrock Floor Prod-

Circle No. 304 on reply card. p. 11

TERRAZZO AND MOSAIC kit contains data and specifications for architectural floor finish. Includes details on many other uses of terrazzo.—National Ter-razzo & Mosaic Assn.

Circle No. 305 on reply eard, p. 11

VINYL floor and wall tile for residential and commercial is subject of eight-page catalog.

—Vinyl Plastics Inc.

Circle No. 306 on reply card, p. 11

WALL TILE DESIGN is featured in five-color folder. Shows 41/4" by 41/4" wall tile in complementing colors.—Wheeling.

Circle No. 307 on reply card, p. 11

Tools, cutting

CHAIN SAWS are pictured and described in this 20-page catalog. Contains specification tables, covers accessories, attachments.—Remington Arms Co., Inc.

Circle No. 308 on reply eard, p. 11

CUSTOM CUTTER for kinds of wood is described in four-page folder. Also suitable for such materials as formica and rubber baseboard .- Dosch.

Circle No. 309 on reply card, p. 11

DIAMOND BLADE for cutting masonry material and sawing concrete and asphalt. Four-page folder tells how to install. to use.-Eveready Briksaw Co.

Circle No. 310 on reply card. p. 11

MASONRY SAWS, blades are emphasized in a four-page cat-alog. Stresses advantages of being able to position cutting head without turning off the mo-tor.—Clipper Mfg. Co.

Circle No. 311 on reply card. p. 11

NEW IDEAS for cutting and handling building materials are illustrated in 20-page catalog. -DeWalt, Inc.

Circle No. 312 on ready card, p. 11

PORTABLE masonry saw is featured in brochure on masonry cutting saws. Lightweight tool performs variety of jobs. Fea-tures and advantages are listed and illustrated.—Eveready Briksaw Co.

Circle No. 313 on reply eard, p. 11

TRIMMER for small cutting jobs is covered in bulletin show-ing basic cuts. Designed to fit trim moulding around windows and doors, to cut in baseboards, Requires no electrical power. Pootatuck Corp.

Circle No. 314 on reply eard, n. 11

Tools, fastening

AUTOMATIC NAILERS are illustrated in 16-page catalog. Fas-teners from 36" to 2" long and over 100 guns to drive them are shown.—Spotanils, Inc.

Circle No. 315 on reply card, p. 11

STAPLING EQUIPMENT is fully described in 32-page man-ual. Complete line covers hand-operated and air-driven equip-ment.—Fastener Corp.

Circle No. 316 on reply eard, p. 11

STUD DRIVER used in fastening to concrete and steel. Eight-page brochure describes variety of operations. — Gregory Indusoperations. - Gregory Indus-

Circle No. 317 on reply card, p. 11

Tools, masonry, plaster & drywall

DRYWALL finishing unit is pictured in folder giving full specifications. Emphasis is specifications. Emphasis is placed on decorative finishing nd texturing.-Glover Mfg.

Circle No. 318 on reply card, p. 11

EQUIPMENT LINE for contractors is concisely covered in bulletin. Describes and pictures power trowel, power tamper, power buggy.—Kelley Machine. Circle No. 319 on regly card, p. 11

TOOLS AND EQUIPMENT for the trowel trades are illustrated, described in 64-page catalog. This includes cement finishing, drywall, masonry, plaster, tile and lath.—Goldblatt Tool Corp.

Circle No. 320 on reply card, p. 11

Tools, metalworking

METAL CUTTING SHEAR, illustrated in four-page folder, has air-trigger throttle to control speed. Automatic start-stop lubrication from oil reservoir in handle.—Stanley Electric.

Circle No. 321 on realy card. n. 11

METALWORKING TOOL catalog covers entire line of punches, brakes, shears and ma-chinery. Loose-leaf book con-tains many photos and specifica-tion charts.—Whitney Metal.

Girele No. 322 on reply card, p. 11

Tools, power

HEAVY-DUTY electric tools are pictured in 12-page brochure. Specifications in chart form are given for saws and polishers. ortable and bench-type grinders, and gas-driven generator sets.—Milwaukee Electric.

Circle No. 323 on reply card, p. 11

PORTABLE POWER tools are given full descriptions, specifica-tions in this catalog. Covers drills, circular saws, sabre saw, trimmer.—American Power.

Circle No. 324 on reply card, p. 11

PORTABLE air-powered and electric tools are fully covered in 72-page catalog. Sections treat drilling, fastening, special tools, accessories.—Buckeye Tools Corp.

Circle No. 325 on reply eard, p. 11

POWER TOOLS are fully pre-sented in colorful, 88-page catalog. Complete line includes cir-cular saws, jointers, band saws, radial saws, sanders. — Rockwell

Circle No. 326 on roply card, p. 11

POWER TOOLS, portable electric and pneumatic, are covered in 69-page catalog. Contains de-scriptions, illustrations and de-tailed spees of complete line. —Skill Corp.

Circle No. 327 on reply eard, p. 11

Tools, woodworking

MULTI-POSITION VISES are described in large brochure. All accessories are shown and described.—Versa-Vise.

Circle No. 328 on reply card. p. 11

WOODWORKING power tools are subject of descriptive catalog. Covers circular saws, jointers, drill presses, sanders, jig. ers, drill presses, sanders, jig and band saws.—Atlas Press Co.

Circle No. 329 on reply card. p. 11

WOODWORKING power tools for on-the-site and in the shop. Literature covers table saws, jointers, planers, shapers, sand-ers, band saws, drill presses and mortiser.—Boice-Crane Co.

Circle No. 330 on reply eard, p. 11

DIESEL TRUCK line is illustrated in full-color, six-page brochure containing specifica-tions. Describes six diesel engines available. — Diamond T Motor Truck Co.

Circle No. 331 on reply card. p. 11

PICKUP TRUCKS shown well-illustrated, full-color folder. Small model said to make more than 30 miles per gallon. Fea-tures bolt-on front fenders, has 800-lb. capacity.—Ford Motor. Circle No. 332 on reply sard, p. 11

TRUCKS are described fully in this colorful brochure, with technical data and specifications. Types covered include pick-up, six-passenger pick-up, panel and station wagon.—Volkswagen.

Circle No. 333 on reply card, p. 11

Tubing, steel

TUBING and its applications are explained in illustrated sixpage brochure. Incorporates ex-tensive tabular material and ap-plication data.—Espro Tubing.

Circle No. 334 on renly card, p. 11

COMPUTATIONS for welded steel tubing can be obtained from tables in 16-page brochure. Tables give dimen-sions and weight per foot for three types of tubing.—Jones & Laughlin Steel Corp.

Circle No. 335 on reply eard, p. 11

Vapor barriers

GROUND CONTACT vapor barrier is shown in four-page brochure. Contains architectural tracer drawings. Also gives rec-omended architect specification forms.—Glas-Kraft, Inc.

Circle No. 336 on reply card. p. 11

POLYETHYLENE FILM as a ter vapor barrier is stressed illustrated booklet. Details specifications for the film are given.-Visking Co.

Circle No. 337 on reply eard, p. 11

Waterproofing

WATERPROOFING SYSTEM involving both corrective and protective treatments for masonry is explained in excellently organized, 20-page guide.—Stand-ard Dry Wall Products.

Circle No. 338 on reply card, p. 11

WEATHERPROOFED COAT-ING for concrete and masonry is described in four-page folder. Contains illustrations of proofed buildings. — V Waterproofing Co. water-Western

Circle No. 339 on renly card. p. 11

Windows

ALUMINUM WINDOWS in 22 styles are presented in colorful 28-page catalog.—Southern Sash. Circle No. 340 on reply card, p. 11

AWNING WINDOWS are main subject of 28-page catalog. Residential, commercial and institutional windows are concentrated here.—Ware Laboratories, Inc.

Circle No. 341 on reply card, p. 11

CASEMENT WOOD window units are described in an eight-page brochure which outlines basic units and combinations available.—Malta Mfg. Co.

Circle No. 342 on reply card, p. 11

PLASTIC SLIDING window unit is shown in folder which gives specifications and sug-gested uses.—Plyco Corp.

Circle No. 343 on reply eard, p. 11

STEEL AND ALUMINUM windows are presented in fully-illustrated, 40-page booklet. In-cluded are representative full-size sections, half-size sections, etc.—Ceco Steel Products.

Circle No. 344 on reply card, p. 11

STEEL WINDOWS of many types and sizes, are pictured in 40-page booklet. Specifications and installation details are given. -Republic Steel Corp.

Circle No. 345 on reply card, p. 11

VERSATILITY of aluminum windows is demonstrated in spe-cification sheets. Tear-off fea-tures, opening dimensions, screen dimensions, etc. included. —W. M. Products Co.

Circle No. 346 on realy card, p. 11

WINDOW LINES featuring interchangeability of sash and frames is presented in six-page booklet with details.—Curtis.

Circle No. 347 on reply card, n. 11

WOOD AWNING and casement windows are featured in 16-page catalog. Well-organized litera-ture contains complete construc-tion details.—Fred Reuten, Inc.

Circle No. 348 on reply eard, p. 11

Window accessories

ALUMINUM AWNINGS for the window and patio are colorfully illustrated in eight-page folder.—Hunter Douglas Div.

Circle No. 349 on reply card, p. 11

AREAWALLS in all sizes and styles are discussed in this cata-log. Come with full depth corrugation and roll top safety edges.—Saint Paul Corrugating. Circle No. 350 on reply card, p. 11

ROLL SCREEN UNIT in two colors, described in pamphlet. Screen-O-Matic runs in hard vinyl channels.—Lockhart Mfg. Circle No. 351 on reply card, p. 11

WEATHERSTRIPPING, made of extruded aluminum and bronze, is subject of 28-page catalog. Gives dimensioned Gives cross-sectional diagrams and lists specifications. — Zero Weather Stripping Co.

Circle No. 352 on reply eard, p. 11

Wiring devices & equipment

CIRCUIT BREAKER devices are CIRCUIT BREAKER devices are featured in thick guide designed to speed ordering. Includes safety switches, service equip-ment, distribution panels. Wadsworth Electric Mfg. Co.

Circle No. 353 on reply card, p. 11

COMPLETE LINE of 1,500 electrical wiring devices are described in 84-page catalog. All products are grouped in cate-gories and cross-indexed.—Eagle Electric Mfg. Co., Inc.

Circle No. 354 on reply eard, p. 11

MULTI-OUTLET assemblies and lighting equipment are among subjects covered in 152-page catalog and wiring guide. Includes section on National Electric Code.—Wiremold Co. Circle No. 355 on reply card, p. 11

WIRING DEVICES (abridged edition) catalog gives complete listing of over 600 items.—Levi-ton Mfg. Co., Inc.

Circle No. 356 on reply card, p. 11

WIRING DEVICES and wall plates are examined in 144-page reference manual. Indexed into 11 sections.—Sierra Electric.

Circle No. 357 on reply card, p. 11

PRODUCTION, erection and transportation of factory-com-pleted "Starlighter" house is covered in 12-page technical bul-letin.—Guerdon Industries, Inc. Circle No. 357-A on reply card, p. 11

PRODUCTS & EQUIPMENT DIRECTORY

Manufacturers are listed under 500 product categories which appear in alphabetical order. For the complete name and address of any manufacturer here, turn ahead to Section 3.

Abrasive Paper & Cloth American Floor Machine Co Bay State Abrasive Products Co Behr-Manning Co Black & Decker Mfg Co Carborundum Co Clarke Floor Machine Co General Hardware Mfg Co Ino Merit Products Inc

Merit Products Inc Minnesota Mining & Mfg Co Pittsburgh Plate Glass Co Thor Power Tool Co

Access Doors (See Doors, Access) Acoustical Ceilings, Grid

Systems For American Louver Co Cupples Products Corp Eastern Products Corp Erdle Perforating Co Inc Macklanburg-Duncan Co Sommer Metal Craft Corp Woodside Engineering Co

Acoustical Materials (See also Plaster, Acoustical)

American Louver Co Arketex Ceramic Corp Armstrong Cork Co Baldwin-Ehret-Hill Inc. Bestwall Gyngum Co. Celotex Corp Cemex of Arizona Cupples Products Corp Curtis Wright Corp Curon Div E G Building Fasteners Corp Eastern Products Corp Erdle Perforating Co Inc Goodrich B F Co Flooring Products Gustin-Bacon Mfg Co Henry W W Co Insulite Div Minn & Ontario Paper Co Johns-Manville Corp. Kaiser Gypsum Co Inc Keasbey & Mattison Co Lockport Mills Inc Mastro Plastics Corp McGume Co Morgan-Wightman Co Natco Corp National Gypsum Co Owens-Corning Fiberglas Corp Paxton Frank Lumber Co Pittsburgh Corning Corp Reynolds Aluminum Supply Co Reynolds Metals Co Rigidized Metals Corp Simpson Timber Co Sterling Alderfer Co Taylor Bedding Mfg Co Ins-Cetton Div Texas Vermiculite Co Tiger Brands Inc Sub of Basic Inc United States Gypsum Co U S Mineral Wool Co Wood Conversion Co Zonolite Co

Adhesives
Abesto Manufacturing Co
Afeo Corp
Allied Chemical Corp Barrett Div
Ambroid Co

American Biltrite Rubber Co American Bitumuls & Asphalt Co American Sta-Dri Co Amsterdam Corp Armstrong Cork Co Asphalt Corp of America Azrock Floor Products Div Uvalde Rock Bangkok Industries Inc Barclay Mfg Co Inc Biddle Co Bird & Son Inc Borden Chemical Co Div Borden Co Bruce E L Co Cabot Samuel Inc. Cambridge Tile Mfg Co Carey Philip Mfg Co Congoleum-Nairn Inc Consoweld Corp Crown Tile Corp Dasco Co Inc Dodge Cork Co Inc DuPont de Nemours & Co Inc E I Fiberboard Paper Prods Inc Findley F G Co Flexrock Co Flintkote Co Formica Corp Fuller H B Co Gen Tire & Rub Co Bldg Materials Div Georgia Pacific Corp Goodrich B F Co Flooring Products Goodrich B F Industrial Products Co Goodyear Tire & Rubber Co Hachmeister-Inc Henry W W Co Higgins Industries Inc Insulite Div Minn & Ontario Paper Co Johns-Manville Corp Kentile Inc Kochton Plywood & Veneer Co Inc Koppers Co Inc Madison Glue Corp Marsh Wall Products Inc Marvan Corp Mastic Tile Div Ruberoid Co McGuffie Co Midwest Plywood Co Minnesota Mining & Mfg Co Miracle Adhesives Corp Miranco Inc Div Miraplas Tile Co Moore Goodloe E Inc Mortell J W Co National Casein Co National Floor Prods Co Nicholson & Co Paxton Frank Lumber Co Pecora Inc Peterson D J Co Inc Pittsburgh Plate Glass Co Plastic Products Co Plymold Co Prestile Mfg Co Roberts Co Ruberoid Co St Regis Paper Co Panelyte Div Schalk Chemical Co Selck Walter E & Co Sheffield Bronze Paint Corp Silvercote Prods Inc Standard Paste & Glue Co Inc Stay-Tite Products Co

Steelcote Manufacturing Co Structural Products Div National Starch Tamms Industries Co. Tex-A-Panel Mfg Co Thomas Moulding Floor Co Inc Tilemaster Corp Tufcrete Co Inc United States Ceramic Tile Co United States Gypsum Co United States Plywood Corp United States Rubber Co Wallace Mfg Co Wasco Products Inc Weyerhaeuser Co Roddis Div Wilson Grant Inc Wurdack Chemical Co. X-Pando Corp

Aggregates for Roofing (See Roofing, Aggregates for) Aggregates, Lightweight Carborundum Co

Carborundum Co
Carter-Waters Corp
Eagle-Picher Co
Graybeal C R & Sons
Great Lake Carbon Corp Perlite Dept
Johns-Manville Corp
Norton Co
Texas Vermiculite Co
Tiger Brands Inc Sub of Basic Inc
Vermiculite-Northwest Inc
Waylite Co
Zonolite Co

Air Cleaners (See also Dehumidifiers) Albion Div McGraw-Edison Co

Albion Div McGraw-Edison Co
American Air Filter Co
Ductiess Hood Co Inc
General Cable Corp
Lennox Industries Inc
Major Industries Inc
Minneapolis-Honeywell Regulator
Mueller Climatrol Div Worthington Corp
Radex Corp
Research Products Corp
Rybolt Heater Co
Skuttle Mfg Co
Trion Inc
Westinghouse Electric Corp

Air Compressors
Bell & Gossett Co
C & H Electric Machine Co
Chicago Pneumatic Tool Co
Devilbias Co
Gardner-Denver Co
Ingersoil-Rand Co
Jaeger Machine Co
Le Rol Div Westinghouse Air Brake Co
Lithibar Co
Master Mechanic Mfg Co
Pittsburgh Plate Glass Co
Thomas Industries Inc Electric Sprayit
United States Air Compressor Co
Worthington Corp

Air Conditioners, Baseboard Barkow Aug G Mfg Co Inc Premier Furnace Co United States Register Co Air Conditioners, Control

Air Conditioners, Central Acme Industries Inc Airtemp Div Chrysler Corp Albion Div McGraw-Edison Co Amana Refrigeration Inc American Air Filter Co American Furnace Co American-Standard Air Conditioning Div American-Standard Industrial Div American-Standard Plumbing & Heating Div Arkla Air Conditioning Corp Armstrong Furn Co Div Natl U E Bar-Brook Mfg Co Bard Mfg Co Barkow Aug G Mfg Co Inc Bryant Manufacturing Co Buffalo Forge Co Burnham Corp Heating & Cooling Div Burnham Corp Warm Air & Cooling Div Carrier Corp Chattanooga Royal Co Clarage Fan Co Coleman Co Inc Crane Co Day & Night Mfg Co Delco Appliance Div General Motors Dowagiac Steel Furnace Co Drayson-Hanson Div Natl U S Rad Corp Dunham-Bush Inc Embassy Steel Prods Inc Gaffers & Sattler General Electric Co Air Conditioning General Electric Co Major Appliance Gilbert & Barker Mfg Co Great Northern Mfg Corp Halstead & Mitchell Heil-Quaker Corp Henry Furnace Co Holly-General Co Div Siegler Corp International Oil Burner Co Janitrol Heating & Air Conditioning Div Johns-Manville Corp Johnson S T Co Lennox Industries Inc Little H C Burner Co Majestic Co Inc McQuay Inc Meyer Furnace Co Miami General Air Conditioning Div Morrison Steel Products Inc Motor Wheel Corp Mueller Climatrol Div Worthington Corp Muncie Gear Co Niagara Furnace Div Forest City Northwest Foundry & Furnace Co Olsen C A Mfg Co Patten J V Co Payne Co Pebbeo Industries Inc Perfection Industries Div Hupp Corp Pioneer Mfg Co Premier Furnace Co Radiation Furnace Corp Reflectotherm Inc. Remington Air Conditioning Div Rempe Co Roberts Gordon Appliance Corp Rybolt Heater Co Sequola Mfg Co Smith A O Corp Permaglas Div Stewart-Warner Corp Heating & Air Cond Div Thatcher Furnace Co Thermador Electric Mfg Co Toridheet Div Cleveland Steel Products Corp Trane Co Typhoon Air Conditioning Co Div Hupp Corp United States Air Conditioning Corp Viking Mfg Corp Welbilt Air Conditioning & Heating Corp Westinghouse Electric Corp Williams Oil-O-Matic Heating Co Williamsen Ce Worthington Corp York Corp Sub Borg-Warner Young Radiator Co. Zink John Co

Air Conditioners, Room Units

Admiral Corp
Airtemp Div Chrysler Corp
Albion Div
Amana Refrigeration Inc
American-Standard Plumbing & Heating Div
Barkow Aug G Mfg Co Inc
Brown Prods Co

Burnham Corp Warm Air & Cooling Div Carrier Corp Crane Co. Delco Appliance Div General Motors Drayson-Hanson Div Natl U S Rad Corp Emerson Electric Mfg Co Emerson-Pryne Co Emerson Radio & Phone Corp Frigidaire Div General Motors Corp General Electric Co Major Appliance Div Gibson Refrigerator Sales Corp Hotpoint Div International Oil Burner Co Kelvinator Div American Motors Co King Refrigerator Corp Kritzer Radiant Coils Inc McQuay Inc Modine Mfg Co Motor Wheel Corp Phileo Corp Remington Air Conditioning Div Rybolt Heater Co Tuck-Aire Furnace Co Welbilt Air Conditioning & Heating Welbilt Stove Co Westinghouse Electric Appliance Div Westinghouse Electric Corp Whirlpool Corp York Corp Sub Borg-Warner Young Radiator Co

Air Conditioning Controls (See Controls, Heating & Air Conditioning)

Air-Supported Buildings Birdair Structures Inc Reeves Brothers Inc

Alarms, Fire & Burglar
Benjamin Div Thomas Industries Inc
Diebold Inc
Edwards Co Inc
Home Music Systems Inc
Minneapolis-Honeywell Regulator
Mosler Safe Co

Aluminum Pipe
(See Pipe & Tubing, Aluminum)
Aluminum Roofing
(See Roofing & Siding,
Aluminum)
Aluminum Windows
(See Windows & Doors,

Combination) Anchors, Building Ackerman Johnson Co Adams Co Adjusta Post Mfg Co Akron Products Co Arro Expansion Bolt Co. Baumgartner Gate Factory Bulldog Div Gregory Industries Ind Chicago Expansion Bolt Co Cleveland Steel Specialty Co Conver Steel & Wire Co Dayton Sure-Grip & Shore Co Diamond Expansion Bolt Co Inc Donley Brothers Co Flash Bridge Co Hawkeye Sales Co Holub Industries Inc Ideal Hanger Co Jordan Industries Kees F D Mfg Co Laclede Steel Co Merwin Mfg Co Met-Cro Specialties Co Inc Molly Corp Nalle Plasties Inc Paine Co Phillips Drill Co Ramset Fastening System Rawplug Co Inc Reynolds Aluminum Supply Co Sommer Metal Craft Corp Star Expansion Industries Corp Tennison Bros Inc

Timber Engineering Co

Timber Fasteners Inc.

U S Expansion Belt Co Universal Form Clamp Co Vestal Mfg Co Wagner Mfg Co Wall Plugs Inc Woodmack Products Ine Yeek Mfg Co

Antonnas, TV
Blonder-Tongue Laboratories Inc
Jerrold Electronics Corp
R C A Service Co Div of R C A

Appliances, Kitchen (See Dishwashers, Ovens, Ranges, etc.)

Areawalls & Guards Acme-Newport Steel Co Adams Co Adjusta Post Mfg Co Armco Drainage & Metal Products Cleveland Steel Specialty Co Dipcraft Mfg Co Donley Brothers Co Inland Steel Products Co Kewanee Mfg Co Majestic Co Inc Morgan-Wightman Co. Saint Paul Corrugating Co Syro Steel Co Tennison Bros Inc United Steel Fabricators Inc. Vestal Mfg Co Wheeling Corrugating Co

Asbestos Cement Board
(See Wallboard, Asbestos
Cement)
Asbestos Cement Roofing &
Shingles
(See Roofing, Asbestos
Cement)
Asphalt Tile
(See Tile, Asphalt, Floor)
Awnings & Canopies, Canvas
(See Canvas, Canvas Products)

Awnings & Canopies, Metal Berg F O Co Bridgeport Brass Co Hunter Douglas Div Chamberlin Co of America Consolidated General Prod Inc Eastern Products Corp Hastings Aluminum Products Inc Hettrick W E & Son Co Humphrey Products Inc Jones Shutter Products Kawneer Co Kingsford Ornamental Building Prods Koolvent Metal Awning Corp of America Leigh Building Products Div Morgan-Wightman Co Orchard Bros Inc Alumaroll Products Co Panelfab Products Inc. Regal Products Corp Reynolds Aluminum Supply Co Security Aluminum Co State Metal Awnings Inc Troy Sunshade Co Victor Tool & Machine Corp Winter Seal Corp

Awnings & Conopies, Plastic Chamberlin Co of America Diperaft Mfg Co Filon Plastics Corp Jones Shutter Products Owens-Corning Fiberglas Corp Ray-O-Lite Corp of America Reeves Brothers Inc Reynolds Aluminum Supply Co Structoglas Inc

Backhoes
Allis Chalmers Mfg Constr Mach Div
American Hoist & Derrick Co
Badger Div Warner & Swasey Co
Bucyrus-Erie Co
Case J I Co
Equipment Div Young Spring & Wire

Ford Motor Co Tractor & Implement Div Gar Wood Industries Inc. General Engines Co Inc Henry Mfg Co Inc Hough Frank Co Hyster Co John Deere Industrial Div Koehring Co Link-Belt Speeder Corp Massey-Ferguson Inc Industrial Div Minneapolis-Moline Co Northwest Engineering Co Oliver Corp Parsons Co Div Koehring Co Schield Bantam Co Tractor Div International Harvester Co Wagner Iron Works Wood Shovel & Tool Co

Balances, Sash (See Sash Balances)

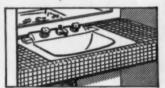
Barricades & Barricade Lights Dietz R E Co Wagner Mfg Co

Wagner Mfg Co
Barriers, Vapor
(See Vapor Barriers)
Bars, Reinforcing
(See Reinforcing Bars & Mesh)
Base, Mold Metal
(See Moldings, Metal)
Base, Plastic
(See Moldings, Plastic)
Base, Rubber
(See Moldings, Rubber)
Bathroom Accessories

KOHLER

(See also Vanities, Lavatory)

Built-in lavatories build up sales



Complete range of styles and sizes

KOHLER OF KOHLER

Kohler Co., Kohler, Wis.

American Olean Tile Co. Amsterdam Corp Bemis Mfg Co Borg-Warner Corp Ingersoll Humphryes Carey Philip Mfg Co Carthage Marble Corp Cole Prods Corp Columbus Plastic Prods Inc Cutler Metal Prods Co Ekco Products Co Ekco-Autoyre Div General Bathroom Products Corp General Chrome Inc. Grant Pulley & Hardware Corp Great Northern Mfg Corp Grote Mfg Co Hall-Mack Co Handy Things Mfg Co Hollaender Manufacturing Co Hoover Bathroom Accessories Irmanton Products Co. Kennatrack Corp Sub Ekco Prods Ketcham G M Mfg Corp

Kitchen Maid Corp
Kohler Co
Lawson F H Co
Lehman Specialty Co
Lehman Specialty Co
Major Industries Inc
McGuffie Co
Miami Cabinet Div Philip Carey Mfg
Miraplas Tile Co
Mirra-Cote Co Inc
Misceramic Tile
Morgan-Wightman Co



Mosaic Tile Co National Tile & Mfg Co National Vanity Co Northern Industries Inc NuTone Inc Owens-Illinois Pittsburgh Plate Glass Co Powers Regulator Co Protectub Inc Rayco Products Inc. Reed Cromex Corp Rieter Woodwork Specialty Co Sani-Top Inc Saniglas Inc Sea-Chrome Inc Selck Walter E & Co Sherle-Wagner Speakman Co. Standard Building Products Co Standard Steel Cabinet Co Sterling Faucet Co Stewart Industries Inc Stylon Corp Tiffany Mfg Co Inc Toperaft Inc Trego Industries Turner & Seymour Mfg Co United States Ceramic Tile Co Universal-Rundle Corp Wasco Products Inc Weis Henry Mfg Co Wenczel Tile Co White Products Inc Williams Products Inc Yale & Towne Mfg Co Yale Lock Zenith Metal Products Co

Bathtub Covers Protectub Inc

Bathroom Fixtures (See Plumbing Fixtures) Bathroom Heaters (See Heaters, Bathroom) Bathtub Enclosures

(See Doors Shower & Bathtub)
Bathtubs

(See Plumbing Fixtures)
Bead, Corner Metal
(See Lath, Metal & Accessories)

Beams, Concrete West Allis Concrete Prods Co

Beams, Steel (See Steel, Structural)

Beams, Wood Laminated
Bradley Southern Div Potlatch Forests
Mauk Seattle Lumber Co
Prefabricated Prods Co Inc
Rilco Laminated Products
Super-Structures Inc
Timber Structures Inc
Tyle Lumber Mfg Co
Unit Structures Inc

Bells & Chimes, Door (See Door Bells & Chimes) Birch Lumber (See Lumber, Birch) Bits, Auger (See Tools, Carpenter, Hand) Bits, Saw (See Saws)

Blackboards & Chaikboards
Benjamin Div Thomas Industries Inc
Davidson Enamel Products Inc
Ingram-Richardson Mfg Co
Johns-Manville Corp
Kochton Plywood & Veneer Co Inc
Marsh Wall Products Inc
United States Plywood Corp

Blades, Saw, Circular
Black & Decker Mfg Co
Dalton Mfg Co
Deluxe Saw & Tool Co
Disston Div H K Porter Co
General Hardware Mfg Co Inc
Jones Superior Machine Co
Milwaukee Elec Tool Corp
Porter-Cable Machine Co
Producers & Distributors Inc
Remington Arms Co Inc
Rockwell Mfg Delta Power Tool Div
Simonds Saw & Steel Co
Skil Corp
Speedway Mfg Div Thor Power Tool Co
Stone Machinery Co

Blades, Saw, Masonry
Bay State Abrasive Products Co Black & Decker Mfg Co Carborundum Co Clipper Mfg Co Columbia Brick Works DeWalt Inc Eveready Briksaw Co General Engines Co Inc Goldblatt Tool Co. Milwaukee Elec Tool Corp Norton Co Simmonds Abrasive Co Skil Corp Speedway Mfg Div Thor Power Tool Co Stone Machinery Co Thor Power Tool Co Victor Inc.

Blocks, Glass
(See Glass Blocks)
Board, Insulating
(See Insulating Board)
Boilers, Steam & Hot Water
(See Heating Systems, Hot
Water & Steam)

Bonding Agents, Plaster & Concrete

Abesto Mfg Co Allied Chemical Corp Barrett Div Allied Compositions Co Inc Anti Hydro Waterproofing Co Bestwall Gypsum Co Camp Co Inc Ceresit Corp Dasco Co Inc Dewey & Almy Chemical Div W R Grace & Co Horn A C Companies Kay-Tite Co Larsen Products Corp Maguire Walter Co Inc Massey-Ferguson Inc Industrial Div National Gypsum Co Nu-Wall Mfg Co Ohio Lime Co Penn Crete Prods Co Permagile Corp of America Ranetite Mfg Co Sika Chemical Corp Sonneborn Chemical & Refining Corp Standard Dry Wall Products Inc Steelcote Manufacturing Co Sullivan Co The Tamms Industries Co.

Tufcrete Co Inc

United States Gypsum Co Wurdack Chemical Co

Books, Building & Plan (See Plans, Services & Books) Booster Pumps, Heating (See Pumps, Booster) Brass Pipe (See Pipe & Tubing, Brass) Breakfast Nooks (See Nooks, Dining)

Brick, Common & Face Acme Brick Co Acme Shale Brick Co Inc Belden Brick Co Black Hills Clay Products Co Bowerston Shale Co Brookhaven Pressed Brick Mfg Co Builders Brick Co Charleston Clay Prods Co Cherokse Brick & Tile Co Clay City Pipe Co Columbia Brick Works Elgin-Standard Brick Mfg Co Empress Brick Co Inc Evans Brick Co. General Clay Products Co Hanley Co Harrisville Brick Co Hattiesburg Brick Works Hope Brick Works Humboldt Brick & Tile Co Illinois Brick Co Interstate Brick Co Jenkins Brick Co Kendrick Brick & Tile Co Mason City Brick & Tile Metropolitan Brick Inc Midland Brick & Tile Co Moorhead Brick & Tile Co Nateo Corp Paxton Brick Co Peoria Brick & Tile Co Robinson Clay Product Co Rockford Brick & Tile Co Sacramento Brick Co Standard Brick & Tile Corp Summit Pressed Brick & Tile Co Texas Brick Co. United Brick & Tile Co Watsontown Brick Co West Virginia Brick Co Yankee Hill Brick Mfg Co

Brick, Fire
Acme Brick Co
Armstrong Cork Co
Builders Brick Co
Columbia Brick Works
Elgin-Standard Brick Mfg Co
Evans Brick Co
Green A P Fire Brick Co
Interstate Brick Co
Johns-Manville Corp
Kaiser Aluminum & Chemical Corp
Pomona Terra-Cotta Co
Robinson Clay Product Co

Brick Paint (See Paints & Coatings, Concrete, Brick, Stucco)

Brick, SCR
Acme Brick Co
Acme Brick Co
Acme Brick Co
Acme Shale Brick Co Inc
Black Hills Clay Products Co
Builders Brick Co
Cherokee Brick & Tile Co
Elgin-Standard Brick Mfg Co
Harrisville Brick Co
Humboldt Brick & Tile Co
Illinois Brick Co
Interstate Brick Co
Mason City Brick & Tile
Metropolitan Brick Inc
Natoc Corp
Peoria Brick & Tile Co
Rockford Brick & Tile Co
Summit Pressed Brick & Tile Co
United Brick & Tile Co

Bridging, Steel (See Steel, Structural) Buckets, Clamshell Johnson C S Co

Johnson C S Co Koehring Co Schield Bantam Co

Buckets, Concrete
Bil-Jax Inc
Fortex Industries Inc
Gar-Bro Mfg Co
Johnson C S Co
Koehring Co
Massey-Ferguson Inc Indu

Massey-Ferguson Inc Industrial Div Northwest Metal Products Inc Reeves Steel & Mfg Co Div Schield Bantam Co United States Steel Products Div U S Steel Wheeling Corrugating Co

Building Paper (See Paper, Building)

Building Stone
Briar Hill Stone Co
Crab Orchard Stone Co Ine
Empire Stone Co
Finger Lakes Stone Co Inc
Fond Du Lac Stone Co Inc
Indiana Limestone Co Inc

Buildings, Air-Supported (See Air-Supported Buildings)

Buildings, **Metal** Armco Drainage & Metal Products Belson Mfg Co Butler Mfg Co Ceco Steel Prods Corp Cuckler Steel Span Co Inland Steel Products Co International Steel Co. Macomber Inc. Michel & Pfeffer Iron Works Inc Mueller Products Inc Panelfab Products Inc Prefabricated Prods Co Inc Republic Steel Corp Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Stran-Steel Corp Div Natl Steel Corp United States Steel Corp United Steel Fabricators Inc

Built-In Vacuum Systems (See Cleaners, Built-In Vacuum Systems)

Buildoxer Attachments
Caterpillar Tractor Co
Eimco Corp
Ford Motor Co Tractor & Implement Div
Gar Wood Industries Inc

John Deere Industrial Div Letourneau-Westinghouse Co Minneapolis-Moline Co Mixermobile Manufacturers Tractor Div International Harvester Co

Buildozers
Allis Chalmers Mfg Constr Mach Div
Arps Corp
Case J I Co
Caterpillar Tractor Co

Drott Mfg Corp
Equipment Div Young Spring & Wire Corp
Elmec Corp
Fleco Corp
Ford Motor Co Tractor & Implement Div
General Engines Co Inc
John Deere Industrial Div

LeTourneau-Westinghouse Co Massey-Ferguson Inc Industrial Div Minneapolis-Moline Co Oliver Corp Tractor Div International Harvester Co

Wagner Iron Works

Business Systems & Forms
Accountants Supply House

Accountants Supply House Allied/Egry Business Systems Autographic Business Forms Inc Dick A B Co Diebold Inc Dodge F W Corp
Ideal System Co
International Business Machines Corp
Momar Industries
Moore Business Forms Inc
National Cash Register Co
Remington Rand Div Sperry Rand
Standard Register Co
Sunroc Corp
Victor Adding Machine Co

Cabinet Hardware (See Hardware, Cabinet) Cabinets, Bookcase & Locker, Steel

Alan Wood Steel Co Penco Div Lyon Metal Products Inc North East Metal Products Corp

Cabinets, Kitchen (See Kitchen Cabinets, Metal or Wood)

Cabinets, Medicine & Bathroom Atkins Wood Products Corp Bennett Mfg Co Carey Philip Mfg Co Columbia Metal Box Co Farley & Loetscher Mfg Co Fuller W P & Co General Bathroom Products Corp General Metalcraft Inc Olympia Div Glass Shower Door Co Inc Glenn Metal Products Corp Great Northern Mfg Corp Grote Mfg Co Hoover Bathroom Accessories Ideal Co Mfg Div Wm Cameron & Co Jenssen Industries Ketcham G M Mfg Corp Kitchen Maid Corp Lau Blower Co Lawson F H Co Lehom Co Lehman Specialty Co Miami Cabinet Div Philip Carey Mfg Mirro Chrome Co Inc Morgan-Wightman Co



National Vanity Co
Ohio Plate Glass Co
Ohio Stamping & Mfg Co
Reynolds Aluminum Supply Co
Rieter Woodwork Specialty Co
Royal Woodwork Inc
Sherle-Wagner
Standard Building Products Co
Standard Steel Cabinet Co
Tiffany Mfg Co Inc
Toledo Plate & Window Glass Co
Topcraft Inc
United Metal Cabinet Corp
Williams Products Inc
Zenith Metal Products Co

(See Shower Stalls)

Cables, Heating
Emerson-Pryne Co
General Electric Co Constr Mach
Meier Electric & Machine Co Inc
United States Steel Corp
Westx Electric Heater Co
Wiegand Edwin L Co

Calcium Chloride (See Concrete, Calcium Chloride For)

Calculators, Spacing & Estimating
Jeff Jones Co
Rolatape Inc

Canvas, Canvas Products Berg F O Co

Cabot Samuel Inc. Columbus Coated Fabrics Corp Fulton Cotton Mills Goss J C Co. Hettrick W E & Son Co Hoosier Tarpaulin & Canvas Goods Co Industrial Canvas Prods Corp Standard Coated Prods Inc Troy Sunshade Co Tucker Duck & Rubber Co Wilson Grant Inc

Carpeting American Biltrite Rubber Co Armstrong Cork Co Bigelow-Sanford Inc. Fiberboard Paper Prods Inc Kingston Mills Inc Luxor Carpet Co Masland C H & Sons Smith Alexander

Carports, Prefabricated Bridgeport Brass Co Diperaft Mfg Co Jones Shutter Products Kingsford Ornamental Building Prods Koolvent Metal Awning Corp Morgan-Wightman Co Orchard Bros Inc Alumaroll Products Co Panelfab Products Inc Pennsylvania Wire Glass Co Prefabricated Prods Co Inc Reynolds Aluminum Supply Co Security Aluminum Co Unistrut Prods Co

Casing, Metal (See also Lath, Metal or Moldings, Metal) Alabama Metal Lath Co Inc Bestwall Gypsum Co Bostwick Steel Lath Co Casings Inc & Drywall Trim Div Ceco Steel Prods Corp Edco Products Inc. Fenestra Inc Firpine Products Co Goldsmith Metal Lath Co. Inland Steel Products Co Miraplas Tile Co National Gypsum Co Penn Metal Co Inc Republic Steel Corp Truscon Div Rusco Div of F C Russel Co Tennison Bros Inc

Cast Iron Pipe (See Pipe, Cast Iron)

Winter Seal Corp

Caulking & Glazing Compounds
Abesto Mfg Co Allied Chemical Corp Barrett Div Alside Inc American Asbestos Product Co Androc Chemical Co Anti Hydro Waterproofing Co Arco Co Asphalt Corp of America Baltz Robert N & Co Inc **Bi-Products Corp** Biddle Co Calbar Inc Carey Philip Mfg Co Central Metal Strip Co Ceresit Corp Certain-Teed Products Corp Chamberlin Co of America Dad & Lad Co Dap Inc Devoe & Raynolds Co Inc Division Lead Co Douglas & Sturgess Flintkote Co Glidden Co Henry W W Co Horn A C Companies Div Sun Chem Corp Johns-Manville Corp Kaiser Aluminum & Chemical Corp

Lastik Paint Inc Lawrence W W & Co Lucas John & Co Inc Macklanburg-Dunean Co Marsh Wall Products Inc Massey-Ferguson Inc Industrial Div McGuffie Co Meadows W R Inc Miracle Adhesives Corp Mobile Paint Mfg Co Monroe Co Inc Mortell J W Co National Mfg Corp Parker Ira & Sons Parr Paint & Color Co Pecora Inc Pemko Mfg Co Penn Crete Prods Co Pittsburgh Plate Glass Co Plastic Products Co Plextone Corp of America Presstite Div American-Marietta Co Quartz Mosaic Inc Quigley Co Inc Ranetite Mfg Co Rutland Fire Clay Co Sager Weatherstrip & Caulking Schalk Chemical Co. Sherwin-Williams Co Sika Chemical Corp Silicone Products Dept Smooth-On Mfg Co Sonneborn Chemical & Refining Corp Stay-Tite Products Co Steelcote Mfg Co Sterling Alderfer Co Sterling Quality Products Inc Sullivan Co Tamme Industries Co Toch Bros Tremco Mfg Co Truscon Labs Inc United Gilsonite Laboratories United States Gypsum Co Wilbur & Williams Co X-Pando Corp

Caulking Gun Loaders

Cedar Lining, Closets Brown George C & Co Inc Chickamauga Cedar Co Inc DeSoto Hardwood Flooring Co Georgia Pacific Corp Giles & Kendall Kochton Plywood & Veneer Co Inc Morgan-Wightman Co Osage Prods Co Paxton Frank Lumber Co Plextone Corp of America United States Plywood Corp

Ceiling Jacks (See Jacks, Ceiling) Ceiling Tile, Acoustical (See Plaster, Acoustical) Ceilings, Suspended (See Lath, Metal)

Cellar Doors (See Doors, Cellar, Bulkhead, Metal)

Cement, Keenes Bestwall Gypsum Co Celotex Corp Flintkote Co National Gypsum Co Ohio Lime Co United States Gypsum Co

Cement, Masonry Alpha Portland Cement Co Ash Grove Lime & Portland Cement Co Corson G & W H Inc Dasco Co Inc Dewey Portland Cement Co Flintkote Co General Portland Cement Co Ideal Cement Co Kay-Tite Co

Kosmos Portland Cement Co Lehigh Portland Cement Co Lone Star Cement Corp Longview Lime Corp Louisville Cement Co Marquette Cement Mfg Co Medusa Portland Cement Co Permanente Cement Co Pittsburgh Plate Glass Co Southern Cement Co American-Marietta United States Steel Corp Universal Atlas Cement Div U S Steel Corp X-Pando Corn

Cement, Portland Alpha Portland Cement Co Ash Grove Lime & Portland Cement Co Columbia Brick Works Dewey Portland Cement Co Flintkote Co General Portland Cement Co Ideal Cement Co Kosmos Portland Cement Co Lehigh Portland Cement Co. Lone Star Cement Corp Louisville Cement Co Marquette Cement Mfg Co Medusa Portland Cement Co Permanente Cement Co Pittsburgh Plate Glass Co Southern Cement Co American-Marietta United States Steel Corp Universal Atlas Cement Div US Steel Corp

Cement, Roofing
Abesto Mfg Co
Allied Chemical Corp Barrett Div American Asbestos Product Co Bird & Son Inc Borden Chemical Co Div Borden Co Carey Philip Mfg Co Celotex Corp Certain-Teed Products Corp Dad & Lad Co Flexrock Co Flintkote Co Fry Lloyd A Roofing Co Henry W W Co Horn A C Companies Div Sun Chem Corn Johns-Manville Corp Koppers Co Inc Lastik Paint Inc Lehon Co Logan-Long Co National Mfg Corp Pecora Inc Pittsburgh Plate Glass Co Presstite Div American-Marietta Co Huberoid Co Rutland Fire Clay Co Sonneborn Chemical & Refining Corp Sullivan Co Surfco Sales Co Tremco Mfg Co United Gilsonite Laboratories United States Gypsum Co United States Steel Corp

Coment, Tile, Mastic Type Alloy Tile Corp American Biltrite Rubber Co Amsterdam Corp Armstrong Cork Co Azrock Floor Prods Div Uvalde Rock Barelay Mfg Co Inc Borden Chemical Co Div Borden Co Crown Tile Corp Dasco Co Inc Douglas & Sturgess Flintkote Co Hachmelster-Inc Henry W W Co Lastik Paint Inc Marsh Wall Products Inc Mastic Tile Div Ruberoid Co McGuffie Co Minnesota Mining & Mfg Co Miracle Adhesives Corp Miraplas Tile Co Moore Goodloe E Inc Pecora Inc. Pittsburgh Plate Glass Co

Plastic Products Co
Prestile Mfg Co
Reardon Co
Robbins Floor Products Inc
Schalk Chemical Co
Selck Walter E & Co
Standard Paste & Glue Co Inc
Tamms Industries Co
United States Ceramic Tile Co
United States Steel Corp
X-Pando Corp

Cement, Wallboard Joint Barclay Mfg Co Inc Bestwall Gypsum Co Carey Philip Mfg Co Celotex Corp Lucas John & Co Inc Marsh Wall Products Inc Miracle Adhesives Corp National Chemical & Mfg Co National Gypsum Co Penn Crete Prods Co Pittsburgh Plate Glass Co Reardon Co Ruberuld Co Rutland Fire Clay Co Schalk Chemical Co Tamms Industries Co. United States Gypsum Co. U S Mineral Wool Co United States Plywood Corp X-Pando Corp

Ceramic Tile (See Tile, Ceramic) Chain Saws (See Saws, Chain) Chimneys, Prefabricated (See also Fireplaces)

Condensation Engineering Co
Flintkote Co
General Products Co
Huncilman & Son
Majestic Co Inc
McQuay Inc
Mctalbestos Div Wm Wallace Co
Van Packer Co Div Flintkote Co

Circuit Breakers
Adam Frank Electric Co
Bryant Electrical Co
Buildog Electric Products
Cutler Hammer Inc
Federal Pacific Electric Co
General Electric Co Apparatus Sales
General Electric Co Circuit Prot Devices
Square D Co
Westinghouse Electric Corp

Circular Saws
(See Saws, Circular)
Circulators, Hot Water Heating
Systems
(See Pumps, Booster)
Cleaners, Built-In Vacuum

Systems
Black & Decker Mfg Co
H-P Products Inc
Holt Mfg Co

Cleaners, Masonry Goldblatt Tool Co Standard Dry Wall Products Inc

Clips, Concrete
Dayton Sure-Grip & Shore Co
Goldsmith Metal Lath Co
Sommer Metal Craft Corp

Clips, Furring
Cleveland Steel Specialty Co
Dayton Sure-Grip & Shore Co
Moore Goodloe E Inc
National Gypsum Co
Penn Metal Co Inc
United States Gypsum Co

Clips, Plaster, Spring (See Lath, Metal & Accessories) Clips, Wallboard & Ceiling Tile (See Wallboard)

Clocks, Built-in
Leigh Building Products Div
Miller Howard Clock Co
Minneapolis Honeywell Regulator
Morgan-Wightman Co
R & H Guaranteed Products Co
Swanson Mfg Co
Wisconsin Clock Co Ine

Closet Accessories Acme Appliance Mfg Co Acme Bldrs American Steel Door Co Atkinson Mfg Co Brown George C & Co Inc Ekco Products Co Ekco-Autoyre Div Gerber Plumbing Fixtures Corp Grant Pulley & Hardware Corp H-C Products Co Kees F D Mfg Co Kennatrack Corp Sub Ekco Prods Knape & Vogt Mfg Co Lawrence Brothers Inc Leigh Building Products Div Louver Mfg & Supply Macklanburg-Duncan Co Masonite Corp Mirro Chrome Co Inc Peerless-Wood Products Russell & Erwin Div Am Hdwe Corp Shelby Spring Hinge Co Stanley Hardware United Steel Products Co

Closet Lining, Cedar (See Cedar Lining, Closets) Closets, Prefabricated Boise Cascade Corp Caradco Inc Evergreen States Forest Products Tedrick Bros Mfg Co Inc

Coatings, Concrete Floor (See Paints & Coatings, Concrete, Brick, Stucco) Coatings, Concrete Forms Acrow Corp of America Calbar Inc Ceresit Corp

Calbar Inc
Ceresit Corp
Diperaft Mfg Co
Johnson's Wax
National Mfg Corp
Plextone Corp of America
Re-Nu-It Corp
Sherwin-Williams Co
Silicones Div Union Carbide
Sonneborn Chemical & Refining Corp
Sullivan Co
Toch Bros
Tuferete Co Inc

Coatings, Roof, Aluminum &
Asphalt
(See Paints & Coatings, Roof)
Coatings, Wood Treatment
(See Paints & Coatings, Wood
Treatment)

Color Consultants
Barreled Sunlight Piant Co
Cook Paint & Varnish Co
Minnesota Paints Inc
Pittsburgh Piate Glass Co
Sherwin-Williams Co
West Beatrice Color Inc

Colors, Concrete & Plaster Ceresit Corp Chicago Bronze & Color Works Clinton Metallic Paint Co Colorcrete Industries Inc Ferro Corp Color Div Flexrock Co Hachmeister-Inc Horn A C Companies Div Sun Chem Corp Interstate Brick Co Landers Segal Color Co. Rockcote Paint Co Rohloff & Co Smith J Lee & Co Inc. Sonneborn Chemical & Refining Corp Sullivan Co Tamms Industries Co

Toch Bros Truscon Labs Inc

Columns, Metal (See Steel, Structural; also See Railings & Columns) Compactors

Hyster Co
Jackson Vibrators Inc
Jay Co Div Leukart Mach Co Inc
Koehring Co
Maginiss Power Tool Co
Master Vibrator Co
Muller Machinery Co Inc
Racine Hydraulics & Machinery Ine
Vibro Plus Prods Inc
Witch Marketing Co

Compounds, Anti-Freeze,
Concrete
Anti Hydro Waterproofing Co
Ceresit Corp
Flexrock Co
Horn A C Companies Div Sun Chem Corp
Kay-Tite Co
Master Builders Co
Ranetite Mfg Co
Plextone Corp of America
Sika Chemical Corp
Sonneborn Chemical & Refining Corp
Sullivan Co

Truscon Labs Inc
Compounds, Anti-Termite
(See Termite Shields)
Compounds, Concrete
(See Concrete Hardeners &
Sealers)

Super Concrete Emulsions

Toch Bros

Concrete Admixtures
Carborundum Co
Ceresit Corp
Dasco Co Inc
Dewey & Almy Chemical Div
Horn A C Companies
Johns-Manville Corp
Kay-Tite Co
Massey-Ferguson Inc Industrial Div
Master Builders Co
Permiteco Inc
Plextone Corp of America
Standard Dry Wall Products Inc
Tamms Industries Co

Concrete Block Machines Brikerete Associates Inc Columbia Machine Inc Dunn W E Co Lithibar Co Wagner Iron Works

Concrete Blocks
Graystone Div
General Concrete Products Inc
Illinois Brick Co
Waylite Co
West Allis Concrete Prods Co

Concrete, Calcium Chloride For City Chemical Corp Pittaburgh Plate Glass Co Solvay Process-Allied Chem Dye Wyandotte Chemicals Corp

Concrete Finishing Machines & Equipment American Floor Machine Co Chain Belt Co Chicago Pneumatic Tool Co Dayton Sure-Grip & Shore Co Dotmar Industries Inc General Engines Co Inc Goldblatt Tool Co Kelley Machine Div Wiesner-Rapp Co Inc Koehring Co Kor-It Co Inc Master Vibrator Co Muller Machinery Co Inc Remington Arms Co Inc Speedway Mfg Div Thor Power Tool Co Stow Mfg Co

Thor Power Tool Co Whiteman Mfg Co

Concrete Form Liners
Bethlehem Steel Co
Dipcraft Mfg Co
Horn A C Companies
Kordite Co
Lithibar Co
Masonite Corp
Paxton Frank Lumber Co
United States Plywood Corp
Visking Co

Youngblood Lumber Co
Concrete Form Ties &

Accessories Acrow Corp of America Cleveland Steel Specialty Co Conver Steel & Wire Co Dayton Sure-Grip & Shore Co Economy Forms Form Co Cates & Sons Inc Gerrard A J & Co Goldsmith Metal Lath Co Horn A C Companies Irvington Form & Tank Co. Jeffery Form Tie Co Merwin Mfg Co Rocform Corp Sheffield Div Armco Steel Corp Simplex Forms System Inc Sommer Metal Craft Corp Superior Scaffold Co Symons Clamp & Mfg Co Unistrut Prods Co U S Mineral Wool Co Universal Form Clamp Co Wood Conversion Co.

Concrete Forms Acrow Corp of America Biersach & Neidermeyer Co Chain Belt Co Colorcrete Industries Inc Dayton Sure-Grip & Shore Co Delta Co. Dipcraft Mfg Co Dotmar Industries Inc Economy Forms Forest Fiber Products Co Form Co Gates & Sons Inc Goldsmith Metal Lath Co Inland Steel Products Co Irvington Form & Tank Co Kochton Plywood & Veneer Co Inc Mahon R C Co Paxton Frank Lumber Co Proctor Products Co. Richkraft Co Rilco Laminated Products Inc Rocform Corp Simplex Forms System Inc Sonoco Prods Co Construction Prod Div Symons Clamp & Mfg Co United States Plywood Corp Universal Form Clamp Co

Concrete Guns (See Guns, Pneumatic, Concrete Application)

Concrete Hardeners & Sealers

Allied Compositions Co Inc American Asbestos Product Co Anti Hydro Waterproofing Co Borden Chemical Co Div Borden Co Camp Co Inc Carter-Waters Corp Ceresit Corp Coddington E D Mfg Co Colorcrete Industries Inc Concrete Weld Co Dad & Lad Co Dasco Co Inc Devoe & Raynolds Co Inc Dewey & Almy Chemical Div Evercrete Corp Flexrock Co Fulton Cotton Mills Horn A C Companies Div Sun Chemical Corp Stow Mfg Co

Kay-Tite Co Koppers Co Inc Durethene Plant Kordite Co Maguire Walter Co Inc Massey-Ferguson Inc Industrial Div Master Builders Co Monroe Co Inc. Permiteco Inc Plextone Corp of America Ranetite Mfg Co Reardon Co. Re-Nu-It Corp Rutland Fire Clay Co Seddon Co Servicised Prods Corp Sika Chemical Corp Sonneborn Chemical & Refining Corp Standard Dry Wall Products Inc Steelcote Mfg Co Sullivan Co. Super Concrete Emulsions Surfco Sales Co Tamms Industries Co Tennant G H Co Thompson E A Co Inc Toch Bros Truscon Labs Inc Tufcrete Co Inc Vita-Var Corp Watco-Dennis Corp Wilbur & Williams Co

Concrete Mixers, Mortar (For On-Site Use)

Chain Belt Co Colorcrete Industries Inc Columbia Machine Inc Construction Machinery Co **Dotmar Industries Inc** Dunn W E Co General Engines Co Inc Gilson Brothers Co Goldblatt Tool Co Jaeger Machine Co Johnson C S Co Koehring Co Lithibar Co Muller Machinery Co Inc Newark Ladder & Bracket Co Inc Smith T L Co Worthington Corp

Concrete Mixers, Transit
Chain Belt Co
Construction Machinery Co
General Engines Co Inc
Hercules-Galion Products Inc
Jaeger Machine Co
Smith T L Co
Whiteman Mfg Co
Worthington Corp

Concrete Paint (See Paints & Coatings, Concrete)

Concrete, Prestressed & Precast Greystone Div

Concrete Sawing Equipment
Carborundum Co
Clipper Mfg Co
Eveready Briksaw Co
Thor Power Tool Co
Victor Inc

Concrete Vibrators, Gasoline & Electric
Chicago Pneumatic Tool Co

General Engines Co Inc
Homelite Div Textron Inc
Jackson Vibrators Inc
Kelley Machine Div Wiesner-Rapp Co Inc
Maginnis Power Tool Co
Master Vibrator Co
Omark Industries Inc
Pacific Mercury Electronics
Remington Arms Co Inc
Speedway Mfg Div Thor Power Tool Co
Stone Machinery Co
Stow Mfg Co

Syntron Co Thor Power Tool Co Vibro Plus Prods Inc Whiteman Mfg Co

Conduits & Raceways Aluminum Co of America American Flexible Conduit Co Anaconda American Brass Co Byers A M Co Carlon Products Corp Chase Brass & Copper Inc Circle Wire & Cable Corp Clayton Mark & Co Columbia Metal Box Co General Cable Corp General Electric Co Construction Materials Harvey Aluminum Johns-Manville Corp Kaiser Aluminum & Chemical Corp Keystone Mfg Co Laclede Steel Co Line Material Ind McGraw-Edison Co Okonite Co Orangeburg Mfg Co Div Flintkote Co Pyle-National Co Republic Steel Corp Southwestern Plastic Pipe Co Triangle Conduit & Cable Co Inc Unistrut Prods Co Wiremold Co Youngstown Sheet & Tube Co

Controls, Heating & Air Conditioning Arrow Hart & Hegeman Elec Co Berko Electric Mfg Corp Controls Co of America Crane Cutler Hammer Inc Everwarm Inc General Electric Co Apparatus Sales Hoffman Specialty Mfg Corp International Register Co Kol-Master Corp Lawler Automatic Controls Inc Lennox Industries Inc Mercoid Corp Minneapolis Honeywell Regulator Morrison Steel Products Inc Paragon Electric Co Penn Controls Inc Robertshaw Thermostat Div Stow Mfg Co Sunwarm Inc Thrush H A & Co Tork Time Controls Inc Triplex Heating Specialty Co Inc Westinghouse Electric Corp White-Rodgers Co Wilcolator

Controls, Lighting (See Wiring Systems, Remote Control)

Conveyors Alvey Ferguson Co Inc American Conveyor Co Barber Greene Co Bodinson Mfg Co Bosworth Mfg Co Buschman E W Co Inc Chain Belt Co Colson Corp Ferguson Harry J Co Gee Vee Line Goldblatt Tool Co Goodall Rubber Co Inc Goodyear Tire & Rubber Co Hewitt-Robins Inc Koehring Co Lake Shore Inc Lake Shore Eng Div Lippmann Engineering Works Inc Louden Machinery Co Mathews Conveyor Co Metzgar Conveyor Co Morgen Mfg Co Mulkey Sam Co New London Engineering Co Northern Conveyor Co

Rapids-Standard Co Inc Richards-Wilcox Mfg Co Smith T L Co Stephens-Adamson Mfg Co United States Rubber Co Virginia Metal Products Inc

Copper Tubing (See Pipe & Tubing, Brass & Copper)

Cork Flooring (See Tile, Cork)

Counterflow Furnace Units (See Furnaces, Counterflow)

Countertops Armstrong Cork Co Boro Wood Prods Co Inc Carthage Marble Corp Chemold Co Congoleum-Nairn Inc Elkay Mfg Co Fiberesin Plastics Co Formica Corp General Elec Co Laminated Prods Dept General Tire & Rubber Co Bldg Materials Div Goodyear Tire & Rubber Co. Gregg & Son Inc Hyde Park Products Co Kitchen Kompact Inc Marsh Wall Products Inc National Tile & Mfg Co Regal Laminates Inc St Regis Paper Co Panelyte Div Sani-Top Inc. Sherel-Wagner Stylon Corp Texboro Cabinet Corp Toperaft Inc. United States Plywood Corp United States Rubber Co Westinghouse Electric Corp

Coverings, Wall (See Wall Coverings)

Vermont Marble Co

Cranes & Shovels Allis Chalmers Mfg Constr Mach Div American Hoist & Derrick Co Bucyrus-Erie Co Clark Equipment Co Constr Mach Div Equipment Div Young Spring & Wire Ford Motor Co Tractor & Implement Div Gar Wood Industries Inc Hyster Co. Koehring Co Link-Belt Speeder Corp Manning Maxwell & Moore Inc Northwest Engineering Co Pitman Mfg Co Radocy P A & Sons Round David & Son Inc Schield Bantam Co Silent Hoist & Crane Co Smith Hoist Mfg Co Unit Crane & Shovel Corp

Cupolas Cape Cod Cupola Co

Curtain Walls American Art Metals Co Arnold Altex Aluminum Co Butler Mfg Co Davidson Enamel Products Inc Fenestra Inc Flynn Michael Mfg Co Haskelite Mfg Div Ingram-Richardson Mfg Co Kawneer Co Kimble Glass Co Sub Owens-Illinois Mahon R C Co Marmet Corp Mesker Bros Iron Co Michel & Pfeffer Iron Works Inc Mueller Brass Co. Owens-Illinois Panelfab Products Inc Pomeroy S H Co Inc Regulux Sash & Door Co

Republic Steel Corp Truscon Div Ryerson Joseph T & Son Slidewall Co. Southern Sash Sales & Supply Co Superior Window Co **Trimview Metal Products** Unistrut Prods Co United States Ceramic Tile Co United States Plywood Corp Wasco Products Inc Ware Aluminum Windows Inc Wausau Metals Corp.



Aluminum Ventilators
Projected Windows Standard & Deluxe Ribbon & Custom Windo Curtain Wall—Casement Windows Screens & Sterm Sash

WAUSAU METALS CORP. WAUSAU, WIS.

Wilke Metal Products Inc. Winter Seal Corp

Cutters, Hardboard Disston Div H K Porter Ekstrom Carlson & Co Hartmeister Mfg Inc

Huther Brothers Saw Mfg Co Inc Kimball Mfg Co Rockwell Mfg Delta Power Tool Div Stanley Tools

Cutters, Insulation Board Disston Div H K Porter Kimball Mfg Co

Cutters, Molding Belsaw Machinery Co Boice Crane Co DeWalt Inc Disston Div H K Porter Dormeyer Corp Dosch Mfg Co Ekstrom Carlson & Co Huther Brothers Saw Mfg Co Inc Jet Tool Inc. Mattison Machine Works Pootatuck Corp Rockwell Mfg Delta Power Tool Div Stanley Electric Tools United Industries Inc Yates-American Machine Co

Cutters, Shingle & Siding Flintkote Co General Hardware Mfg Co Inc Keasbey & Mattison Co Newark Ladder & Bracket Co Inc Ruberoid Co Specialty Tool Manufacturers United States Gypsum Co Yates-American Machine Co

Cutters, Stump (See Bulldozer Attachments) Cypress Lumber (See Lumber, Cypress)

Dampers, Fireplace (See Fireplaces, Outdoor & **Equipment**)

Decking, Insulating Armstrong Cork Co Berger Insulation Co Inc Bestwall Gypsum Co Bird & Son Inc Bradley Southern Div Potlatch Forests Inc Carey Philip Mfg Co Celotex Corp Cemex of Arizona Flintkote Co Gilman Bros Co Georgia Pacific Corp Great Lakes Carbon Corp Perlite Dept Homasote Co Insulite Div Minnesota & Ontario Paper Johns-Manville Corp Kaiser Gypsum Co Inc Lehon Co

Meadows W R Inc National Gypsum Co Owens-Corning Fiberglas Corp Paxton Frank Lumber Co Reynolds Aluminum Supply Co Rilco Laminated Products Ruberoid Co Simpson Timber Co Texas Vermiculite Co Ther-Mo Roof Inc Timber Structures Inc. Uni-Crest Div United Cork Unit Structures Inc United States Gypsum Co Waylite Co Wood Conversion Co Zonolite Co

Decking, Metal Ceco Steel Prods Corp Dayton Sure-Grip & Shore Co Fenestra Inc Follansbee Steel Corp Goldsmith Metal Lath Co Granco Steel Prods Co Haven-Busch Co Inland Steel Products Co. Macomber Inc Mahon R C Co Penn Metal Co Inc Plasteel Products Corp Republic Steel Corp Republic Steel Corp Truscon Div Ryerson Joseph T & Son Stran-Steel Corp Div Natl Steel Corp Tennison Bros Inc United States Gypsum Co Wheeling Corrugating Co

Dehumidifiers (See also Air Conditioners)
Abbeen Supply Co

Admiral Corp Albion Div McGraw-Edison Co Amana Refrigeration Inc Berns Air King Corp Carrier Corp Clarage Fan Co Cory Corp Dayton Electric Mfg Co Emerson-Pryne Co Fedders Corp Gibson Refrigerator Sales Corp Kelvinator Div American Motors Co Morgan-Wightman Co Mueller Climatrol Div Remington Air Conditioning Div Westinghouse Electric Corp Whirlpool Corp Worthington Corp

Derricks (See Hoists & Derricks) Devices, Wiring (See Wiring Devices) **Dining Nooks** (See Nooks, Dining)

Dishwashers Admiral Corp Chambers Built-Ins Inc Frigidaire Div General Motors Corp General Electric Co Major Appliance Gregg & Son Inc Hotpoint Div Kelvinator Div American Motors Co KitchenAid Morgan-Wightman Co National Rubber Machinery Co Phileo Corp Preway Inc Tennessee Stove Works Waste King Corp Westinghouse Electric Appliance Div Westinghouse Electric Corp Whirlpool Corp Youngstown Kitchens

Disposers, Garbage American-Standard Plumbing & Heating Div Chambers Built-Ins Inc Donley Brothers Co

Frigidaire Div General Motors Corp General Electric Co Major Appliance Harvill Corp Hotpoint Div In-Sink-Erator Mfg Co Kelvinator Div American Motors Co Locke Stove Co Morgan-Wightman Co National Disposer National Rubber Machinery Co Northwest Metal Products Inc. Phileo Corp Pioneer Mfg Co Vestal Mfg Co Waste King Corp Westinghouse Electric Appliance Div Westinghouse Electric Corp Whirlpool Corp Youngstown Kitchens

(See Trenchers & Ditchers)

Door Bells & Chimes Auth Electric Co Inc Cable Electric Products Inc Carey Philip Mfg Co Dooroscope Co Edwards Co Inc Emerson Electric Mfg Co Emerson Pryne Co Graham John H & Co Inc International Register Co Lehon Co Miami Cabinet Div Philip Carey Mfg Morgan-Wightman Co NuTone Inc Rittenhouse Co Inc

Door Operators, Garage Alliance Mfg Co Inc Allister Mfg Co Inc Atlas Overhead Door Co. Barber Colman Co Berry Door Corp Better-Bilt Door Co Calder Mfg Co Capitol Products Inc. Crawford Door Co Dor-O-Matic Div Republic Industries Inc Fitzgerald M J Co Frantz Mfg Co Graham Door Inc Howell Mfg Co Kinnear Mfg Co Lancaster Pump & Mfg Co Inc McKee Door Co Moore A E Co Inc Morrison Steel Products Inc Overhead Door Corp Raynor Mfg Co RCA Service Co Div of RCA Richards-Wilcox Mfg Co Robot Industries Inc. Rowe Mfg Co Sedcon Inc

Wagner Mfg Co

Doors, Access & Crawl Space Adams Co Bilco Co Carey Philip Mfg Co Coffman R G Co Inc Columbia Metal Box Co Donley Brothers Co. Industrial Iron Works **Inland Steel Products Co** Lehon Co Leigh Building Products Div Miami Cabinet Div Philip Carey Mfg Morgan Company Simpson Timber Co Vestal Mfg Co.

Doors, Cellar, Bulkhead, Metal



Bileo Co Cellarway Inc Donley Brothers Co International Fireproof Door Co Michel & Pfeffer Iron Works Inc Pak-Cel Inc. Vega Industries Inc

Doors, Combination, Aluminum (See Windows & Doors) Doors, Combination, Steel (See Windows & Doors) Doors, Combination, Wood (See Windows & Doors)

Doors, Flexible & Folding American Accordion-Fold Doors Inc American Steel Door Co Amweld Building Products Clopay Corp Columbia Mills Inc. Consolidated General Prod Inc Cookson Co Cox Arthur & Sons Inc Craftwood Products Curtis Companies Inc **Curtition Corp** Eastern Products Corp **Evergreen States Forest Products** Fenestra Inc. Float-Away Door Co Gates Mfg Co Inc Grant Pulley & Hardware Corp Gregg & Son Inc Holcomb & Hoke Mfg Co Inc Hough Mfg Corp Leigh Building Products Div Michel & Pfeffer Iron Works Inc Morgan Company New Castle Products Inc Nova Sales Co Paine Lumber Co Ltd Panelfold Doors Inc Paxton Frank Lumber Co Perless-Wood Products Precision Parts Corp Ready Hung Door Corp Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Richards-Wilcox Mfg Co Rock Island Millwork Co Factory Div Rolscreen Co Spokane Sash & Door Co Suncraft Inc United States Plywood Corp. Wacowall Div Waco-Porter Corp Warren Shade Co Inc Wel-Bilt Products Co Wood Specialty Products Inc.

Doors, Garage, Upward Acting, Metal

Atlas Overhead Door Co Barber Colman Co Berkeley Aluminum Products Inc Berry Door Corp

GARAGE DOORS

2400 E. Lin

Crawford Door Co Fenestra Inc General Doors Corp Howell Mfg Co Kinnear Mfg Co McKee Door Co Morgan-Wightman Co Morrison Steel Products Inc Overhead Door Corp Panel-Lift Door Corp Raynor Mfg Co Reynolds Aluminum Supply Co Rowe Mfg Co Taylor Garage Doors Inc.

Tilt-A-Door Corp Wagner Mfg Co Weather Seal Inc Wel-Bilt Products Co. Wilson J G Corn

Doors, Garage, Upward Acting, Wood Atlas Overhead Door Co

Barber Colman Co Berry Door Corp Better-Bilt Door Co Calder Mfg Co Capitol Products Inc Crawford Door Co Frantz Mfg Co General Doors Corp Graham Door Co Howell Mfg Co Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Kinnear Mfg Co McKee Door Co Morgan-Wightman Co Northwest Door Co Div Overhead Door Corp Pacific Mutual Door Co Phenix Mfg Co Raynor Mfg Co Richards-Wilcox Mfg Co Rowe Mfg Co Simpson Timber Co Wagner Mfg Co Winfield Door Corp

Doors, Glass (See Doors, Sliding; also Doors, Shower)

Doors, Interior & Exterior, Metal Amweld Building Products Bayley William Co Berry Door Corp

GARAGE DOORS Full 5 year guarantee

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Burr-Southern Div State Steel Industries Inc Ceco Steel Prods Corp Davidson Enamel Prods Inc DeVac Inc Fenestra Inc International Fireproof Door Co International Steel Co Kawneer Co Kewanee Mfg Co Kinnear Mfg Co Leigh Building Products Div Marmet Corp Mesker Bros Iron Co Michel & Pfeffer Iron Works Inc Morrison Steel Products Inc Mueller Brass Co North East Metal Products Corp Panelfab Products Inc Republic Steel Corp Republic Steel Corp Truscon Div Richards-Wilcox Mfg Co Richmond Fireproof Door Co Rowe Mfg Co Rusco Div of F C Russell Co State Steel Industries Inc. Steelcraft Mfg Co Sun Valley Industries United Steel Fabricators Inc Virginia Metal Products Inc Vulcan Metal Prods Inc Wilson J G Corp Winter Seal Corp

Doors, Interior & Exterior, Wood Anson & Gilkey Co Bellwood Co Bradley Southern Div Caradeo Inc

Clopay Corp Connor Lumber & Land Co Craftwood Products Curtis Companies Inc DeVac Inc Evergreen States Forest Products Farley & Loetscher Mfg Co Firpine Products Co General Plywood Corp Georgia Pacific Corp Gregg & Son Inc Hardwood Products Corp Haskelite Mfg Div Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Ipik Door Co Inc Kochton Plywood & Veneer Co Inc Mauk Seattle Lumber Co. Mengel Co Mohawk Flush Doors Morgan Company Morgan-Wightman Co Niagara Plywood Co Inc Northwest Door Co Div Pacific Mutual Door Co Paxton Frank Lumber Co Pease Woodwork Co Inc Perrine Industries Inc Petterson J C Corp Plywall Prods Co Plywood Co Ready Hung Door Corp Reynolds Aluminum Supply Co Rock Island Millwork Co Factory Div Semling-Menke Co Simpson Timber Co Southern Mill & Mfg Co Spokane Sash & Door Co Sun Valley Industries Inc United States Plywood Corp Weyerhaeuser Co Roddis Div Wisconsin Door Co Woodco Corp

Doors, Jalousie

Alumatic Corp of America **Aluminum Industries** Angel Co Arnold Altex Aluminum Co Carey-McFall Co Chamberlin Co of America Cookson Co Fleet of America Inc Georgia Pacific Corp Hess Mfg Co Hettrick W E & Son Co Jasco Aluminum Products Keystone Alloys Co Kreuger Mfg Co Look Products Inc Moloney Co Morgan-Wightman Co North East Metal Products Corp Northwest Door Co Div Panelfab Products Inc Perrine Industries Inc Regal Products Corp Regulux Sash & Door Co Republic Steel Corp Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Rock Island Millwork Co Factory Div Royal Jalousie Co Schumacher F E Co Simpson Timber Co Southern Sash Sales & Supply Co State Metal Awnings Inc Superior Industries Inc Universal Fabricators Ware Aluminum Windows Inc Wells Aluminum Corp Winsulite Mfg Co Winter Seal Corp Woodco Corp

Doors, Kitchen Cabinet Connor Lumber & Land Co Curtis Companies Inc Fibersin Plastics Co Kechton Plywood & Veneer Co Inc North East Metal Products Corp Weber Veener & Plywood Co Youngblood Lumber Co

Doors, Louver, Metal Auer Register Co International Fireproof Door Co Leigh Building Products Div North East Metal Products Corp Panelfab Products Inc Republic Steel Corp Truscon Div

Roberts Co

Doors, Louver, Wood Caradeo Inc Clopay Corp Craftwood Products Curtis Companies Inc Door's Inc Farley & Loetscher Mfg Co Georgia Pacific Corp Goshen Sash & Door Co Gregg & Son Inc Heinley Mastercraft Products Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Kennatrack Corp Sub Ekco Prods Kochton Plywood & Veneer Co Inc Missoula White Pine Sash Co. Morgan Company Morgan-Wightman Co

DOORS - INTERIOR, EXTERIOR SLAB, LOUVRE, S. S. S. NEW 196 PAGE CATALOG ST. LOUIS 66, MO.

North East Metal Products Corp Northwest Door Co Div Paxton Frank Lumber Co Philadelphia Screen Mfg Co Plywall Prods Co Precision Parts Corp Ready Hung Door Corp Rock Island Millwork Co Factory Div Rockwell of Randolph Inc Schumacher F E Co Silver Line Co Simpson Timber Co Southern Mill & Mfg Co Suncraft Inc Tyler Arthur F Co United States Plywood Corp Visador Co Wabash Screen Door Co Woodco Corp

Doors, Prefabbed & Packaged Ceco Steel Prods Corp Clark Door Co Inc Craftwood Products Door's Inc Goshen Sash & Door Co Ideal Co Mfg Div Wm Cameron & Co Mesker Bros Iron Co. Morgan-Wightman Co Mueller Brass Co Panelfab Products Inc Pease Woodwork Co Inc. Precision Parts Corp Prefabricated Prods Co Inc Ready Hung Door Corp Steelcraft Mfg Co Vulcan Metal Prods Inc

Wacowall Div Waco-Porter Corp Doors, Prehung Alumatic Corp of America Champion Door Co Inc Craftwood Products Door's Inc. EZ-Way Sales Inc Gregg & Son Inc Ideal Co Mfg Div Wm Cameron & Co Jenkins Lumber & Mfg Co Master Hung Door Equip Co Moloney Co Morgan-Wightman Co Pease Woodwork Co Inc Peerless-Wood Products

Ready Hung Door Corp Reyal Jalousie Co Superior Industries Inc Wilke Metal Products Inc Winter Seal Corp

Doors, Rolling, Steel Atlas Overhead Door Co Cookson Co Kinnear Mfg Co Mahon R C Co Morrison Steel Products Inc North American Door Co Inc Wilson J G Corp Winfield Door Corp

Doors, Shower & Bathtub (See also Shower Stalls)

American Shower Door Co Inc Anoroc Products Inc Beauti-Dor Inc Binswander Glass Co Chemeld Co Cutler Metal Prods Co Daryl Products Corp Efron Theodore Mfg Co Evergreen States Forest Products Fiat Metal Mfg Co Fuller W P & Co Glass Shower Door Co Inc Grant Pulley & Hardware Corp Jones Shutter Products Ketcham G M Mfg Corp Lehman Specialty Co Look Products Inc Milwaukee Stamping Co Bathe-Rite Div Morgan-Wightman Co North East Metal Products Corp Perrine Industries Inc Pittsburgh Plate Glass Co Reynolds Aluminum Supply Co Royal Jalousie Co Safety-Flex Enclosures Div Woodside Ind Shower Door Co of America Showerfold Door Corp Standard Building Products Co Standard Steel Cabinet Co Tiletone Co Trimview Metal Products Wasco Products Inc Weis Henry Mfg Co

Doors, Sliding Glass Ader Corp Alsco Inc American-Saint Gobain Corp American Shower Door Co Inc Arcadia Metal Products Binswander Glass Co Capitol Products Corp Capri Sales Inc Cole Mfg Co Daryl Products Corp Dina-Pak Corp Etling Window E-Z Set Windows Inc Ida Products Co Fenestra Inc Fleet of America Inc Fuller W P & Co General Bronze Corp Glass Shower Door Co Inc



Horizon Door Co Lehman Specialty Co Look Products Inc. Malibu Mfg Corp Metal Trims Inc Miami Window Corp Miller Frank B Mfg Co Miller Sliding Glass Door Co Inc National Window Corp

North East Metal Products Corp Perrine Industries Inc. Peterson Window Corp Pittsburgh Plate Glass Co Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Rolscreen Co. Royal Jalousie Co Safetee Glass Co Shower Door Co of America Slide-View Door & Window Co Southern Sash Sales & Supply Co Sun Valley Industries Textron Metals Co Toledo Plate & Window Glass Co Trim Slide Inc Trimview Metal Products Universal Fabricators Virginia Glass Products Corp W M Products Co. Winter Seal Corp

Doors, Sliding Wood & Metal Aluminum & Glass Products Co Arnold Altex Aluminum Co Clark Door Co Inc Clopay Corp Cole Mfg Co Cox Arthur & Sons Inc. Craftwood Products Curtis Companies Inc E-Z Set Windows Inc EZ-Way Sales Inc Ida Products Co International Fireproof Door Co Fenestra Inc Glide Windows Inc. Ideal Co Mfg Div Wm Cameron & Co Ipik Door Co Inc Labrie Mfg Co Inc Malibu Mfg Corp Mengel Co Michel & Pfeffer Iron Works Inc Morgan Company Oro Mfg Co Paine Lumber Co Ltd Paxton Frank Lumber Co Premier Hall Mfg Co Ready Hung Door Corp Republic Steel Corp Truscon Div Richards-Wilcox Mfg Co Rockwell of Randolph Inc Silver Line Co Slide-View Door & Window Co. Standard Building Products Co Steelcraft Mfg Co Storm King Corp United States Plywood Corp Virginia Metal Products Inc Wel-Bilt Products Co Weyerhaeuser Co Roddis Div Winter Seal Corp

Douglas Fir (See Lumber, Fir, Douglas or Plywood, Douglas Fir)

Drains, Shower Josem Mfg Co

Woodall Industries Inc

Hoffman Specialty Mfg Corp

Drawer Slides & Rollers



DRAWER SLIDES

- Center Mounting
- Bottom Mounting
- · Side Mounting
- · Ball Bearing

ASK YOUR WHOLESALER

AMERICE CORPORATION

Ajax Hardware Corp
Amerock Corp
Extension Drawer Support Co
Grant Pulley & Hardware Corp
Junior-Pro Products Co
Knape & Vogt Mfg Co
Leigh Building Products Div
Penn-Akron Corp
Washington Steel Prods
Woodside Engineering Co

Drawers, Plastic Knoll-Drake Products Inc Masonite Corp Morgan-Wightman Co Washington Steel Prods

Drill Grinders (See Grinders, Drill)

Drills, Brick, Concrete, Tile Arro Expansion Bolt Co Black & Decker Mfg Co Bucyrus-Erie Co Bulldog Div Gregory Industries Inc Chicago Expansion Bolt Co Chicago Pneumatic Tool Co Cincinnati Tool Co. Clipper Mfg Co. Damascus Steel Products Corp Diamond Expansion Bolt Co Inc. Gardner-Denver Co General Hardware Mfg Co Inc Hawkeye Sales Co Holub Industries Inc Hood Bros Jordan Industries Mayhew Steel Products Inc Milwaukee Elec Tool Corp Molco Drilling Machines Inc New England Carbide Tool Co Inc. Omark Industries Inc. Oxwall Tool Co Ltd Paine Co Phillips Drill Co Proto Tool Co Div Pendleton Tool Ind Inc Rawplug Co Inc Remington Arms Co Inc Relton Corp Skil Corp Stanley Tools Star Expansion Industries Corp Stortz John & Son Inc Syntron Co Thor Power Tool Co Union Twist Drill Co U S Expansion Bolt Co Victor Inc. Wodack Electric Tool Corp

Drills, Electric, Portable Albertson & Co Inc American Floor Machine Co Black & Decker Mfg Co Blum Julius & Co Inc Buildog Div Gregory Industries Inc Chicago Pneumatic Tool Co Clipper Mfg Co **Cummins Portable Tools Div** Dalton Mfg Co Dayton Electric Mfg Co Disston Div H K Porter Dormeyer Corp Forsberg Mfg Co Hosking John H Co Ingersoll-Rand Co Kett Tool Co Koehring Co Millers Falls Co Milwaukee Elec Tool Corp Molco Drilling Machines Inc Portable Electric Tools Inc Porter-Cable Machine Co. Ryerson Joseph T & Son Skil Corp Speedway Mfg Div Thor Power Tool Co Stanley Electric Tools Thor Power Tool Co Union Twist Drill Co Wen Products Inc Wodack Electric Tool Corp

Drills, Gasoline
Barco Míg Co
Bucyrus-Krie Co
Clipper Míg Co
Roehring Co
Remington Arms Co Inc

Drivers & Fasteners, Cartridge
Actuated Type
Fastway Fasteners Inc
Hawkeye Sales Co
Hilti Rapid Fastening Systems Inc
Nelson Stud Driver Div
Omark Industries Inc
Ramset Fastening System
Remington Arms Co Inc

Dryers, Clothes (See Washers & Dryers, Clothes)

Ducts, Metal
H-P Products
Inland Steel Products Co
International Oil Burner Co
Keystone Mfg Co
Lennox Industries Inc
Wilke Metal Products Inc
Williamson Co
Dumbwaiters

Dumbwaiters
Barrett Cravens Co
Bodinson Mfg Co
C & H Electric Machine Co
Chelsea Elevator Co
Dover Corp Electric Elevator Div
Inclinator Co of America
Lewis-Shepard Products Inc
Otis Elevator Co
Robot Industries Inc
Whitney Vincent Co

Earthmoving Equipment (See Backhoes, Bulldozers, Cranes, etc.)

Electrical Materials (See Conduits & Raceways also Wiring Systems)

Elevators, Hand Power (See Dumbwaiters)

Estimating Services
Construction Cost Institute
Goshen Sash & Door Co
Lifetime Industries Inc
Tamblyn Systems
Unit Structures Inc

Fans, Commercial Acme Enginering & Mfg Corp Air Controls Inc American Air Filter Co Berns Air King Corp Buffalo Forge Co Chicago Blower Corp Consolidated General Prod Inc Cory Corp Dayton Electric Mfg Co Emerson Electric Mfg Co Gaffers & Sattler Div ILG Electric Ventilating Co Peerless Electric Div H K Porter Co Inc Standard Electric Mfg Co Inc Stewart S J Electric Trane Co Westinghouse Electric Corp

Fans, Exhaust, Bath & Kitchen
Acme Engineering & Mfg Corp
Air Controls Inc
American Standard Industrial Div
Aubrey Hardware Mfg Inc
Bar-Brook Mfg Co
Berns Air King Corp
Boro Wood Prods Co Inc
Broan Mfg Co Inc
C & H Air Conditioning Co Inc
Cal Vent Mfg Co
Carey Philip Mfg Co
Chambers Built-Ins Inc
Chelses Fan & Blower Co Inc

Clarage Fan Co Dayton Electric Mfg Co Emerson Electric Mfg Co Emerson-Pryne Co Fasco Industries Inc Gray & Dudley Co Gregg & Son Inc ILG Electric Ventilating Co Kitchen Kompact Inc Kol-Master Corp Lau Blower Co Lehon Co Leigh Building Products Div Marvel Electric Mfg Co Master Mechanic Mfg Co McLean Engineering Labs Miami Cabinet Div Philip Carey Mfg Morgan-Wightman Co.



Perfect-Line Mfg Corp Progress Mfg Co Inc Reed Unit Fans Inc Rich Phil Fan Mfg Co Inc Robbins & Myers Inc Roberts Mfg Co Sin-Jin Products Co Standard Electric Mfg Co Inc Stewart Industries Inc Stewart S J Electric Texboro Cabinet Corp Trade-Wind Div Robbins & Myers Inc Universal Blower Co Ventrola Mfg Co Westwind Mfg Co Inc

Fans, Ventilating, Attic

Air Controls Inc American Coolair Corp Bar-Brook Mfg. Co. Berns Air King Corp Buffalo Forge Co € & H Air Conditioning Co Inc Carey Philip Mfg Co Chelsea Fan & Blower Co Inc Chicago Blower Corp Clay Equipment Corp Consolidated General Prod Inc Damp-Vent Co Dayton Electric Mfg Co Emerson Electric Mfg Co Emerson-Pryne Co. Fasco Industries Inc Gordon Mfg Co Hudson H D Mfg Co Hunter Div-Robbins & Myers Inc ILG Electric Ventilating Co Jenssen Industries Lau Blower Co Master Mechanic Mfg Co McLean Engineering Labs Meier Electric & Machine Co Inc Morgan-Wightman Co Olson Mfg Co Peerless Electric Div H K Porter Co Inc Reed Unit Fans Inc Rich Phil Fan Mfg Co Inc Robbins & Myers Inc Standard Electric Mfg Co Inc Starline Inc Stewart 5 J Electric Verneo Corp Wasco Products Inc. Westinghouse Electric Corp Zink John Co

Fascia & Soffits, Aluminum

Alseo Inc Alaide Inc. Kaiser Aluminum & Chemical Corp Keystone Alloys Co Lifetime Industries Inc

Mueller Brass Co. Reynolds Aluminum Supply Co Victor Tool & Machine Corp

Fasteners

Arro Expansion Bolt Co Bethlehem Steel Co Bulldog Div Gregory Industries Inc Butcher & Hart Mfg Co Carey Philip Mfg Co Chase Brass & Copper Inc Diamond Expansion Bolt Co Inc E G Building Fasteners Corp ES/Products Inc Hassall John Inc Hawkeye Sales Co Hercules Fastener Co Hilti Rapid Fastening Systems Inc Hoskins John H Co Jordan Industries Knape & Vogt Mfg Co Lamson & Sessions Co Ludwig Mfg Co Inc Molly Corp Nelson Stud Driver Div Paine Co Phillips Drill Co Power Line Sales Inc Powernail Co. Ramset Fastening System Reynolds Aluminum Supply Co Robertson Steel & Iron Co Sheffield Div Armco Steel Corp Stanscrew Fasteners Div Standard Screw Co Star Expansion Industries Corp Stick-Klip Mfg Co Inc Superior Fastener Corp Timber Engineering Co Tinnerman Products Inc U S Expansion Bolt Co United States Gypsum Co

Faucets, Tub & Shower American-Standard Plumbing Chicago Faucet Co Gyro Brass Mfg Corp Harvey Aluminum Lehman Specialty Co Moen Faucet Div Standard Screw Co National Disposer National Rubber Machinery Co Powers Regulator Co Speakman Co Sterling Faucet Co Weis Henry Mfg Co Universal-Rundle Corp

Felt Roofing (See Roofing, Asphalt)

Fencing

Ornamental Iron Fencina

AND GATES

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American Steel & Wire Div Anchor Fence Div Anchor Post Prods Inc Arrow Tank Co Inc Baumgariner Gate Factory Bethlehem Steel Co Bradley Southern Div Colorado Fuel & Iron Corp Continental Steel Corp Copperweld Steel Co Dipcraft Mfg Co Erdle Perforating Co Inc Filon Plastics Corp Grissom-Rakestraw Lumber Co Forbes Steel Corp Habitant Fence Inc Harris L C Cedar Ltd Jackson Shake Co Jones & Laughlin Steel Corp Kaiser Aluminum & Chemical Corp Keystone Steel & Wire Co Masonite Corp

Mid-States Steel & Wire Co. Northwestern Steel & Wire Co Robertson Steel & Iron Co Sheffield Div Armco Steel Corp Stewart Iron Works Inc Tennessee Fabricating Co. United States Steel Corp

Fiber Board (See Wallboard & Sheathing, Fiber; also Insulating Board) Fiber Joint Sewer Pipe

(See Pipe, Sewer) Files, Saw & Circular Belsaw Machinery Co Carborundum Co Disston Div H K Porter Co Inc Heller Tool Co Nicholson File Co Plumb Fayette R Inc Simonds Saw & Steel Co

Financing Mortgage Exchange Co of America Inc Universal C I T Credit Corp

Finishers, Wallboard (See Cement, Wallboard Joint)

Finishes & Sealers Allied Chemical Corp Barrett Div American Asbestos Product Co American Floor Machine Co American Varnish Co Armstrong Cork Co Bangkok Industries Inc Barreled Sunlight Paint Co Biddle Co Borden Chemical Co Div Borden Co Bruce E L Co Ceresit Corp Chicago Bronze & Color Works Clarke Floor Machine Co. Cromar Co Dad & Lad Co Devoe & Raynolds Co Inc Dixon Joseph Crucible Co Douglas & Sturgess DuPont de Nemours & Co Inc E I Elliott Paint & Varnish Co Flexrock Co Flintkote Co Forman-Ford & Co Glidden Co Globe Paint Works Inc Hild Floor Machine Co Inc Horn A C Companies Div Sun Chem Corp Johnson's Wax Lawrence W W & Co Lowe Bros Lucas John & Co Inc Marietta Paint & Color Co Martin-Senour Co Massey-Ferguson Inc Industrial Div McGuffle Co Minnesota Mining & Mfg Co Minnesota Paints Inc. Miraplas Tile Co Monroe Co Inc National Chemical & Mfg Co National Mfg Corp O'Brien Corp Parr Paint & Color Co Peterson D J Co Inc Phelan-Faust Paint Mfg Co Pittsburgh Plate Glass Co Pratt & Lambert Inc Protection Products Mfg Co Ranetite Mfg Co Rez Wood-Tones Inc Rockcote Paint Co Sapolin Paints Inc Seidlitz Paint & Varnish Co Selby Battersby & Co Sherwin-Williams Co Sonneborn Chemical & Refining Corp Stay-Tite Products Co Steelcote Mfg Co Tamms Industries Co Thickol Chemical Corp Thompson E A Co Inc Tremco Mfg Co

Tufcrete Co Inc
Twentieth Century Paint & Varnish
United States Cypsum Co
United States Plywood Corp
United States Rubber Co
Valspar Corp
Vita-Var Corp
Watco-Dennis Corp
Wooster Sealkote Co
X.-Pando Corp
Zinsser William & Co Inc

Finishing Machines, Concrete (See Concrete Finishing Machines) Fir, Lumber (See Lumber, Fir, Douglas) Fir, Plywood (See Plywood, Douglas Fir) Fire Alarm Systems

(See Alarms, Fire & Burglar) Fire Extinguishers Moore Pipe & Sprinkler Co

Fireplaces, Outdoor & Equipment Ada Bennett-Ireland Inc Burr-Southern Div Caradeo Inc Colonial Fireplace Co Columbia Brick Works Donley Brothers Co Dover Corp Peerless Mfg Div Grillcraft Co Hasty-Bake Mfg Co Inc Industrial Iron Works Majestic Co Inc Miller Howard Clock Co Morgan Company NuTone Inc. Outdoor Oven Fireplace Co Peterson Robert H Co Silent Glow Oil Burner Co State Steel Industries Inc Stratton Terstegge Co Superior Fireplace Co Thermo Rite Mfg Co

Fireplaces, Prefabricated
Condensation Engineering Co
Condon-King Co
Donley Brothers Co
Hearthaire Conditioning Co
Majestic Co Inc
Morgan-Wightman Co
Oakland Foundry Co
Readybuilt Products Co
Stratton Terstegge Co
Vega Industries Inc

Vestal Mfg Co

Fireplaces, Units, Metal Adams Co. Bennett-Ireland Inc Builders Brick Co Builders Fireplace & Supply Colonial Fireplace Co Columbia Brick Works Condon-King Co Donley Brothers Co Grilleraft Co Hearthaire Conditioning Co Majestic Co Inc State Steel Industries Inc Stratton Terstegge Co Superior Fireplace Co Vega Industries Inc Vestal Mfg Co

Fixtures, Electric Lighting
American Louver Co
Art Metal Co
Art Metal Co
Benjamin Div Thomas Industries Inc
Curtis-Alibrite Lighting Inc
Del Val Mfg Co
Eagle Electric Mfg Co
Erdle Perforating Co Inc
Emerson Electric Mfg Co

Emerson-Imperial Lighting Co Emersen-Pryne Co General Bathroom Products Carp General Plastics Corp Glasolier Co Great Northern Mfg Corp Holophane Co Inc Hubbell Harvey Inc Jay Lighting Mfg Co Inc Kirlin Co Litecraft Mfg Pacific Corp Lightolier Inc Luminous Ceilings Inc Markel Electric Prods Inc. Marvin Electric Mfg Co Miller Co. Miller Howard Clock Co Morgan-Wightman Co Pass & Seymour Inc Penetray Corp Prescolite Mfg Corp Progress Mfg Co Inc Pyle-National Co Silvray Lighting Inc. Smoot-Holman Co Stonco Electric Prods Co Swivelier Co Inc Sylvania Elec Prods Inc Tennessee Fabricating Co

Yard Lighting Fixtures

Lamps—Jackey Boy Hitching Pasts, etc. WRITE FOR NEW CATALOG

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Thomas Industries Inc Union Insulating Co Virden John C Co Virginia Glass Products Corp Westinghouse Electric Corp Wiley R & W Inc Zenith Metal Products Co

Fixtures, Plumbing (See Plumbing Fixtures)

Flashing, Aluminum
Aluminum Co of America
Georgia Pacific Corp
Kaiser Aluminum & Chemical Corp
Kaiser Aluminum & Chemical Sales Inc
Ludlow Papers Div of Ludlow Corp
Mueller Brass Co
Nichols Wire & Aluminum Co
Quaker State Metals Co
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Reynolds Metals Co
Wasco Products Inc
Yeck Mig Co

Flashing, Copper
American Sisalkraft Corp
Amaconda American Brass Co
Bridgeport Brass Co
Ceco Steel Prods Corp
Chase Brass & Copper Inc
Conver Steel & Wire Co
Delta Co
Hussey C G & Co
Inland Steel Products Co
Klauer Mfg Co
Ludlow Papers Div of Ludlow Corp
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Wasso Products Inc

Flashing, Galvanized & Terne
Bethlehem Steel Co
Ceco Steel Prods Corp
Columbia Brick Works
Conver Steel & Wire Co
Follansbee Steel Corp
Inland Steel Products Co
Klauer Mig Co
Northwest Metal Products Inc
Reeves Steel & Mig Co
Republic Steel Corp

Reynolds Aluminum Supply Co Tennison Bros Inc Wheeling Corrugating Co Yeck Mfg Co

Floshing, Paper-Treated
American Sisalkraft Corp
Johns-Manville Corp
Lehon Co
Ludlow Papers Div of Ludlow Corp
National Mfg Corp
Protective Papers Inc
Richkraft Co
Thilmany Pulp & Paper Co
Wasco Products Inc

Flashing, Plastic
American Sisalkraft Corp
Asphalt Corp of America
Carroliton Mig Co
Dasco Co Inc
Delta Co
Dow Chemical Co
Goring Plastics Div
Kordite Co
Ruberoid Co
Rutland Fir Clay Co
Visking Co
Warp Brothers
Wasco Products Inc

Flooring, Asphalt Tile (See Tile, Asphalt)

Flooring, Beech Bradley Southern Div Commonwealth Lumber Corp Marsh Lumber Co

Flooring, Ceramic, Resilient Harris Mfg Co United States Ceramic Tile Co

Flooring, Ceramic Tile (See Tile, Ceramic)

Flooring, Cork (See Tile, Cork) Flooring, Hardwood, Oak

Flooring, Hardwood, Oak Alabama Oak Flooring Co Arkansas Oak Flooring Co Atlanta Oak Flooring Co Bradley Southern Div Bruce E L Co Carpenter Oak Flooring Co Chickamauga Cedar Co Inc Cloud Oak Flooring Co Commonwealth Lumber Corp Connor Lumber & Land Co Cook A B Co Cook F C & Co Cromar Co Crossett Lumber Co DeSoto Hardwood Flooring Co Dierks Forests Inc. Fair D L Lumber Co Fordyce Lumber Co Frost Forest Products Div Galloway Lumber Co Georgia Pacific Corp Graybeal C R & Sons Grissom-Rakestraw Lumber Co Hardwood Corp of America Harris Hardwood Co Inc Harris Mfg Co Hassell & Parkes Inc Higgins Industries Inc Independence Oak Flooring Co International Paper Co Long-Bell Div Kentucky Flooring Co of Va Inc Leathers A H Mfg Co Marsh Lumber Co McMinnville Mfg Co Meadow River Lumber Co Meridian Wood Prods Co Miller Bros Co National Forest Prods Co Ozan Lumber Co Ozark Oak Flooring Co Phillips Ryhne Lumber Co Inc Pickens Hardwood Flooring Co Inc Plyfloor Inc. Plywood Co

Robbins Flooring Co
Searcy Flooring & Lumber Co Inc
Smith W T Lumber Co
Southern Pine Lumber Co
Texoak Flooring Co
Thomson Oak Flooring Co
Tibbals Flooring Co
Triplett Lumber Co Inc
Veach-May-Wilson Inc
Virginia Oak Flooring Co Inc
Wells J W Lumber Co
Williams J L & Sons
Wood-Mosaic Corp Parkay Div
Yawkey Bissell Hardwood Flooring Co
Youngblood Lumber Co

Flooring, Hardwood, Pre-Finished

Bangkok Industries Inc
Bradley Southern Div
Bruce E L Co
Cromar Co
Fair D L Lumber Co
Georgia Pacific Corp
Higgins Industries Inc
Horner Flooring Co
Memphis Hardwood Flooring Co
Modernwood Co
Plyfloor Inc
Wood-Mosaic Corp Parkay Div

Flooring, Linoleum Armstrong Cork Co Bird & Son Inc Bradley Southern Div Congoleum-Nairn Inc

Flooring, Maple
Commonwealth Lumber Corp
Harris Hardwood Co Inc
Harris Mfg Co
Kentucky Flooring Co of Va Inc
Marsh Lumber Co

Flooring, Parquetry Bangkok Industries Inc Bradley Southern Div Bruce E L Co Connor Lumber & Land Co Cromar Co Diamond Lumber Co Fair D L Lumber Co Georgia Pacific Corp Harris Hardwood Co Inc Harris Mfg Co Higgins Industries Inc Kentucky Flooring Co of Va Inc Modernwood Co National Forest Prods Co Plyfloor Inc Robbins Flooring Co Virginia Oak Flooring Co Inc Wells J W Lumber Co Wood-Mosaic Corp Parkay Div Yawkey Bissell Hardwood Flooring Co

Flooring, Pecan Bradley Southern Div Hassell & Parkes Inc

Flooring, Pine & Fir
Bradley Southern Div
Brooks-Scanlen Ine
Commonwealth Lumber Corp
Crossett Lumber Co
Dierks Forests Inc
Fair D L Lumber Co
Georgia Pacific Corp
Hardwood Corp of America
Mauk Seattle Lumber Co
National Forest Prods Co
Ozan Lumber Co
Pacific Lumber Co
Phillips Ryhne Lumber Co Inc
Pope & Talbot Inc
Rosboro Lumber Co
Tremont Lumber Co
Veach-May-Wilson Inc
Weyerhaeuser Co Lumber & Plywood Div

Flooring, Plastic (See Tile, Vinyl) Flooring, Rubber (See Tile, Rubber) Flooring, Underlayment

Abitibi Corp Allied Chemical Corp Barrett Div Allied Compositions Co Inc American Asbestos Product Co American Bitumuls & Asphalt Co Armstrong Cork Co Azrock Floor Products Div Borden Chemical Co Div Borden Co Bradley Southern Div Camp Co Inc Carey Philip Mfg Co Celotex Corp Coddington E D Mfg Co Dasco Co Inc Dodge Cork Co Inc Flexrock Co Flintkote Co Forest Fiber Products Co. Georgia Pacific Corp Gering Plastics Div Studebaker-Packard Goodrich B F Co Flooring Products Insulite Div Minnesota & Ontario Paper Co Johns-Manville Corp Kochton Plywood & Veneer Co Inc Masonite Corp Meadows W R Inc Miracle Adhesives Corp National Mfg Corp Paxton Frank Lumber Co Pecora Inc Pope & Talbot Inc Presstite Div American-Marietta Co Protective Papers Inc Ruberold Co Selby Battersby & Co Southern Plaswood Corp Superwood Corp Tamms Industries Co Thomas Moulding Floor Co Inc Tremco Mfg Co Tufcrete Co Inc United States Gypsum Co United States Plywood Corp Weyerhaeuser Co Silvatek Div

Flooring & Wall Covering, Marble

(See also Stone, Marble)
Carthage Marble Corp
Marsh Wall Products Inc
National Floor Prods Co
Vermont Marble Co

Wood Conversion Co

Youngblood Lumber Co

Flue Lining
American Vitrified Prods Co
Builders Brick Co
Columbia Brick Works
Dee Clay Prod Co Inc
Evans Brick Co
Interstate Brick Co
Malvern Flue Lining Inc
Natco Corp
Owensboro Sewer Pipe Co
Patton Clay Mfg Co
Pomona Terra-Cotta Co
Robinson Clay Products Co
Straltaville Brick Co
Streator Drain Tile Co

Flues & Chimneys, Prefabricated
Condensation Engineering Co
General Products Co
Hart & Cooley Mfg Co
Majestic Co Inc
Metalbestos Div Wm Wallace Co
Streator Drain Tile Co
Van Packer Co Div Flintkote Co

Folding Doors (See Doors, Flexible & Folding) Forced Air Furnaces (See Furnaces, Forced Air) Fork Lifts (See Trucks, Fork Lift)

Forms, Concrete (See Concrete Forms)

Frames, Door & Window, Metal Amweld Building Products Ceco Steel Prods Corp Clay Equipment Corp DeVac Inc Fenestra Inc. International Fireproof Door Co Kawneer Co Kewanee Mfg Co Marmet Corp Mesker Bros Iron Co Metal Crafters Michel & Pfeffer Iron Works Inc Mueller Brass Co Panelfab Products Inc. Pittsburgh Plate Glass Co Republic Steel Corp Truscon Div Richards-Wilcox Mfg Co Richmond Fireproof Door Co Starline Inc. Steelcraft Mfg Co Trimco Metal Products Virginia Metal Products Inc Vulcan Metal Prods Inc Ware Aluminum Windows Inc

Frames, Door & Window, Wood Andersen Corp Anson & Gilkey Co Boise Cascade Corp Bradley Southern Div Caradeo Inc Cole Mfg Co Crestline Co Curtis Companies Inc Deer Park Pine Industry Inc. Dierks Forests Inc Farley & Loetscher Mfg Co Firpine Products Co Fordyce Lumber Co Georgia Pacific Corp Goshen Sash & Door Co Gregg & Son Inc Hines Edward Lumber Co. Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Keystone Frame & Mfg Co Lee Millwork Corp Malta Mfg Co Mauk Seattle Lumber Co Missoula White Pine Sash Co Mutual Fir Column Co Pacific Mutual Door Co Paxton Frank Lumber Co Rockwell of Randolph Inc Southern Mill & Mfg Co Wel-Bilt Products Co White Pine Sash Co

Framing Devices, Steel
Dur O Wal Div Cedar Rapids Block Co
Junior-Pro Products Co
Kees F D Mfg Co
Sta-Tite Inc
Timber Engineering Co



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Framing, Steel (See Steel, Structural) Framing, Wood (See Lumber) Freezers (See Refrigerators & Freezers) Fronts, Store (See Store Fronts)

Furnaces, Counterflow Units Airtemp Div Chrysler Corp American Furnace Co American Standard Air Conditioning Armstrong Furn Co Div Natl U E Bastian-Morley Co Inc Bard Mfg Co Bryant Mfg Co Burnham Corp Warm Air & Cooling Div Carrier Corp Chattanooga Royal Co Coleman Co Inc Crane Co Day & Night Mfg Co Delco Appliance Div General Motors Dowagiac Steel Furnace Co Dravo Corp Empire Stove Co Gaffers & Sattler Div General Automatic Products Corp General Electric Co Air Conditioning Dept Heil-Quaker Corp Henry Furnace Co Hess Co International Oil Burner Co Janitrol Heating & Air Conditioning Kaustine Furnace & Tank Co Kresno-Stamm Mfg Co Lennox Industries Inc Majestic Co Inc Meyer Furnace Co Monogram Industries Inc Morrison Steel Products Inc Motor Wheel Corp Duo-Therm Div Mueller Climatrol Div Worthington Corp Niagara Furnace Div Forest City Northwest Foundry & Furnace Co Olsen C A Mfg Co Patten J V Co Payne Co Perfection Industries Div Hupp Corp Pioneer Mfg Co Premier Furnace Co Richmond Heating Equipment Roberts Gordon Appliance Corp Rybolt Heater Co Samuel Stamping & Enameling Co Sequoia Mfg Co Smith A O Corp Permaglas Div Stratton Terstegge Co Temperature Appliance Mfg Co Thatcher Furnace Co Toridheet Div Cleveland Steel Products Trane Co Typhoon Air Conditioning Div Viking Mfg Corp Wayne Home Equipment Co Inc Westinghouse Electric Corp Williams Oil-O-Matic Heating Co Williamson Co York Corp Sub Borg-Warner York-Shipley Inc

Furnaces, Floor Albion Div McGraw-Edison Co Bryant Mfg Co Ceilbeat Inc Coleman Co Inc Empire Stove Co General Automatic Products Corp Holly-General Co Div Siegler Corp Jackson & Church Div Kresky Mfg Co Inc Kresno-Stamm Corp Little H C Burner Co Monogram Industries Inc Northwest Metal Products Inc Samuel Stamping & Enameling Co Stratton Terstegge Co Temco Inc Typhoon Air Conditioning Div York-Shipley Inc Zink John Co

Furnaces, Forced Air Airtemp Div Chrysler Corp American Furnace Co American Standard Air Conditioning Div Armstrong Furn Co Div Natl U E Bryant Mfg Co Burnham Corp Warm Air & Cooling Div Carrier Corp Chattanooga Royal Co Coleman Co Inc Crane Co Day & Night Mfg Co Delco Appliance Div General Motors Dowagiac Steel Furnace Co Dravo Corp Empire Stove Co Fedders Corp Gaffers & Sattler Div General Elec Co Air Conditioning Dept Heil-Quaker Corp Henry Furnace Co Hess Co Holland Furnace Co Holly-General Co Div Siegler Corp Ingersoll Prod Div Borg-Warner International Oil Burner Co Janitrol Heating & Air Conditioning Div Johnson S T Co Kaustine Furnace & Tank Co Lennox Industries Inc. Majestic Co Inc Meyer Furnace Co Monogram Industries Inc Morgan-Wightman Co Morrison Steel Products Inc Motor Wheel Corp Duo-Therm Div Mueller Climatrol Div Worthington Corp Niagara Furnace Div Forest City Foundries Norman Products Co Northwest Foundry & Furnace Co Olsen C A Mfg Co Patten J V Co Payne Co Pennsylvania Furnace & Iron Co Perfection Industries Div Hupp Corp Premier Furnace Co Radiation Furnace Corp Reznor Mfg Co Richmond Heating Equipment Roberts Gordon Appliance Corp Rybolt Heater Co Sequoia Mfg Co Smith A O Corp Permaglas Div Stewart-Warner Corp Stratton Terstegge Co Temen Inc Thatcher Furnace Co Toridheet Div Cleveland Steel Products Trane Co Tuck-Aire Furnace Co Typhoon Air Conditioning Div Viking Mfg Corp Wayne Home Equipment Co Inc Welbilt Air Conditioning & Heating Westinghouse Electric Corp. Williams Oil-O-Matic Heating Co Williamson Co York Corp Sub Borg-Warner York-Shipley Inc Zink John Co

Furnaces, Suspended
Airtemp Div Chryaler Corp
American Furnace Co
American Standard Air Conditioning Div
Armstrong Furn Co Div Natl U E
Bard Mfg Co
Bryant Mfg Co
Bryant Mfg Co
Burnham Corp Warm Air & Cooling Div
Carrier Corp
Chattanooga Royal Co
Coleman Co Inc
Crane Co
Delco Appliance Div General Motors
Dowaglac Steel Furnace Co
Dravo Corp
Empire Stove Co
Gaffers & Sattler Div
General Automatic Products Corp

Gilbert & Barker Mfg Co Heil-Quaker Corp Henry Furnace Co Heus Co Janitrol Heating & Air Conditioning Div Kaustine Furnace & Tank Co Lennox Industries Inc Majestic Co Inc Meyer Furnace Co Monogram Industries Inc Morrison Steel Products Inc Mueller Climatrol Div Worthington Corp Niagara Furnace Div Forest City Norman Products Co Northwest Foundry & Furnace Co Olsen C A Mfg Co Patten J V Co Payne Co. Perfection Industries Div Hupp Corp Premier Furnace Co Reznor Mfg Co Richmond Heating Equipment Rybolt Heater Co Sequoia Mfg Co Stewart-Warner Corp Stratton Terstegge Co Temeo Inc Trane Co Thatcher Furnace Co Toridheet Div Cleveland Steel Prods Corp Typhoon Air Conditioning Div Viking Mfg Corp Wayne Home Equipment Co Inc
Welbilt Air Conditioning & Heating
Williams Oil-O-Matic Heating Div Nati U E Williamson Co York Corp Sub Borg-Warner York-Shipley Inc Zink John Co

Furnaces, Wall Bastian-Morley Co Inc Chattanooga Royal Co Coleman Co Inc Day & Night Mfg Co Empire Stove Co Gaffers & Sattler Div Holly-General Co Div Siegler Corp Heil-Quaker Corp International Oil Burner Co Kresky Mfg Co Inc Little H C Burner Co Monogram Industries Inc Morrison Steel Products Inc Mueller Climatrol Div Worthington Corp Northwest Metal Products Inc Ohio Foundry & Mfg Co Payne Co Perfection Industries Div Hupp Corp Pioneer Mfg Co Samuel Stamping & Enameling Co Stewart-Warner Corp Suburban Propane Gas Corp Temco Inc

Fuse Boxes
Adam Frank Electric Co
Columbia Metal Box Co
Cutler-Hammer Inc
Federal Pacific Electric Co
General Electric Co Circuit Prot Devices
Kees F D Mfg Co
Keystone Mfg Co
Murray Mfg Corp
Square D Co

Garage Doors (See Doors, Garage)

Garage Hardware (See Hardware, Garage)

Garages, Prefabricated (See Directory of Home Manufacturers)

Garbage Disposers (See Disposers, Garbage; also see Incinerators) Generators, Engine-Driven C & H Electric Machine Co

C & H Electric Machine Co
Carrier Corp
Dayton Electric Mig Co
Jackson Vibrators Inc
Katolight Corp
Kohler Co
Onan Div of Studebaker-Packard Co
Pacific Mercury Electronics
Universal Motor Co
Waukesha Motor Co
Waukesha Motor Co
Westinghouse Electric Corp
Wincharger Corp
Winpower Mig Co
Witte Engine Works Oil Well Supply

Generators, Portable, Electric Allis Chalmers Mfg Co Construction Mach Borg-Warner Corp Pesco Products C & H Electric Machine Co Caterpillar Tractor Co Dayton Electric Mfg Co Fairbanks Morse & Co General Electric Co Apparatus Sales Homelite Div Textron Inc Jackson Vibrators Inc Katolight Corp Kohler Co Master Mechanic Mfg Co Master Vibrator Co Milwaukee Elec Tool Corp Morgan-Wightman Co Onan Div of Studebaker-Packard Corp Pacific Mercury Electronics Pioneer Gen E Motor Corp Speedway Mfg Div Thor Power Tool Co Thor Power Tool Co Universal Motor Co Westinghouse Electric Corp Wincharger Corp Winpower Mfg Co

Glass, Architectural & Ornamental

American-Saint Gobain Corp Forman-Ford & Co Libbey-Owens-Ford Glass Co Nurre Co Ohio Plate Glass Co Pennsylvania Wire Glass Co Perrine Industries Inc Pittaburgh Plate Glass Co Safetee Glass Co Virginia Glass Products Corp

Glass Blocks
Forman-Ford & Co
Kimble Glass Co Sub Owens-Illinois
Owens-Illinois
Perrine Industries Inc
Pittsburgh Corning Corp
Southern Sash Sales & Supply Corp

Glass, Crystal Sheet
American-Saint Gobain Corp
Cole Mfg Co
Fourco Glass Co
Libbey-Owens-Ford Glass Co
Mondial United Corp
Nurre Co
Ohio Plate Glass Co
Toledo Plate & Window Glass Co

Glass, Double Pane
American-Saint Gobain Corp
Cole Mfg Co
Forman-Ford & Co
Libbey-Owens-Ford Glass Co
Nurre Co
Ohio Plate Glass Co
Perrine Industries Inc
Pittsburgh Plate Glass Co
Safetee Glass Co
Toledo Plate & Window Glass Co

Glass, Plate
American-Saint Gobain Corp
Cole Mig Co
Forman-Ford & Co
Goshen Sash & Door Co
Libbey-Owens-Ford Glass Co

Mondial United Corp Nurre Co Ohio Plate Glass Co Pittsburgh Plate Glass Co Safetee Glass Co Toledo Plate & Window Glass Co

Glass, Structural American-Saint Gobain Corp Cole Mfg Co Mondial United Corp Ohio Plate Glass Co Pennsylvania Wire Glass Co Perrine Industries Inc Pittsburgh Plate Glass Co

Glass, Window, Wire
American-Saint Gobain Corp
Cole Mfg Co
Dipcraft Mfg Co
Forman-Ford & Co
Goshen Sash & Door Co
Libbey-Owens-Ford Glass Co
Mondial United Corp
Ohio Plate Glass Co
Nurre Co
Perrine Industries Inc
Pittsburgh Plate Glass Co
Toledo Plate & Window Glass Co

Glazing Compounds (See Caulking & Glazing Compounds)

Greenhouses, Prefabricated
Dipcraft Mfg Co
Jones Shutter Products
Lord & Burnham Div Burnham Corp

Grilles, Door & Window American Screen Products Co Bayley William Co Cincinnati Iron Fence Co Inc Curtis Companies Inc Erdle Perforating Co Inc Hendrick Mfg Co Hutchinson R H & Co Ida Products Co International Oil Burner Co Macklanburg-Dunean Co Metal Crafters Meyers Fred L Mfg Co Michel & Pfeffer Iron Works Inc Moloney Co Rudiger-Lang Co Tennessee Fabricating Co United States Register Co Waterloo Register Co Inc Yeck Mfg Co

Grinders, Drill
Atlas Press Co
Blum Julius & Co Inc
Dayton Electric Mfg Co
McDonough Mfg Co
Union Twist Drill Co

Grinders, Tool & Cutter Black & Decker Mfg Co McDonough Mfg Co Union Twist Drill Co

Guards, Areawall (See Areawalls & Guards) Gum Lumber (See Lumber, Gum)

Guns, Caulking
Caibar Inc
Horn A C Companies
Lawrence W & & Co
Macklanburg-Duncan Co
Rutland Fir Clay Co
Tamms Industries Co

Guns, Paint Spray (See Paint Spray Guns)

Guns, Pneumatic Concrete Application Air Placement Equipment Co Santa Anita Mfg Corp Sprayton Equipment Co Guns, Pneumatic, Plaster Plastering Development Center Inc Santa Anita Mfg Corp Sprayton Equipment Co

Gutters, Metal Alabama Metal Lath Co Inc Alsco Inc Alside Inc Aluminum Co of America Ceco Steel Prods Corp Chase Brass & Copper Inc Inland Steel Products Co Kaiser Aluminum & Chemical Corp Keystone Mfg Co Klauer Mfg Co Lyon Conklin & Co Inc Northwest Metal Products Inc Quaker State Metals Co Reeves Steel & Mfg Co Republic Steel Corp Republic Steel Corp Berger Div Reynolds Aluminum Supply Co Reynolds Metals Co Tennison Bros Inc Wheeling Corrugating Co

Gypsum Plaster (See Plaster, Gypsum)

Hammers, Gasoline Barco Mfg Co Syntron Co

Hammers, Hand (See Tools, Carpenter, Hand)

Hammers, Pneumatic
Chicago Pneumatic Tool Co
Dotmar Industries Inc
Gardner-Denver Co
Ingersoil-Rand Co
Le Roi Div Westinghouse Air Brake Co
Power Lines Sales Inc
Powernail Co
Skil Corp
Speedway Mfg Div Thor Power Tool Co
Thor Power Tool Co
Worthington Corp

Hammers, Portable Electric
Black & Decker Mfg Co
Blum Julius & Co Inc
Homelite Div Textron Inc
Ingersoil-Rand Co
Millers Falls Co
Millers Falls Co
Milwaukee Elec Tool Corp
Porter-Cable Machine Co
Phillips Drill Co
Rawplug Co Inc
Skil Corp
Speedway Mfg Div Thor Power Tool Co
Stanley Electric Tools
Syntron Co
Thor Power Tool Co
Wodack Electric Tool Corp

Hangers, Bathtub
American-Standard Plumbing & Heating Div
Hollaender Mfg Co
Kohler Co
Lucke William B Inc

Hangers, Insulation
Dayton Sure-Grip & Shore Co
Moore Goodloe E Inc

Hangers, Joist & Lumber
Adams Co
Baumgartner Gate Factory
Cleveland Steel Specialty Co
Copco Steel & Engineering Co
Dayton Sure-Grip & Shore Co
Donley Brothers Co
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Kees F D Mfg Co
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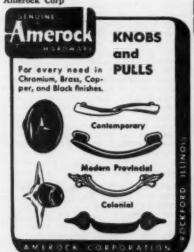
Vestal Mfg Co. Wagner Mfg Co Yeck Mfg Co

Hardboard

Abitibi Corp Armstrong Cork Co Barclay Mfg Co Inc Cascades Plywood Corp Celotex Corp Certain-Teed Products Corp Diamond Lumber Co Diperaft Mfg Co Erdle Perforating Co Inc Evans Products Co Flintkote Co Forest Fiber Products Co Georgia Pacific Corp Hines Edward Lumber Co Insulite Div Minnesota & Ontario Paper Co Johns-Manville Corp Kaiser Gypsum Co Inc Keasbey & Mattison Co Kochton Plywood & Veneer Co Inc Marsh Wall Products Inc Masonite Corp Midwest Plywood Co National Gypsum Co Paxton Frank Lumber Co Plastergon Wall Board Co Reynolds Aluminum Supply Co Robertson Steel & Iron Co Simpson Timber Co Superwood Corp United States Gypsum Co United States Plywood Corp Vancouver Plywood Co Weyerhaeuser Co Roddis Div Weyerhaeuser Co Silvatek Div Woodall Industries Inc. Woodward Lumber Co Youngblood Lumber Co

Hardware, Cabinet Acme Appliance Mfg Co Acme Builders

Acorn Mfg Co Ajax Hardware Corp Amerock Corp



Aubrey Hardware Mfg Inc Austin & Eddy Inc Baldwin Hardware Mfg Corp Challenger Lock Co Colonial Bronze Co Corbin P & F Div American Hardware Corp Ekco Products Co

Designware Industries Inc Dexter Lock Div Dexter Industries Ekco Products Co Engineered Products Co Extension Drawer Support Co Frantz Mfg Co Frick-Gallagher Mfg Co Inc Gensco Tools Grant Pulley & Hardware Corp Griffin Mfg Co Independent Lock Co H & M Cabinet Service Hager C & Sons Hinge Mfg Co Heller W C & Co Ideal Brass Works Inc Ives H B Co Junior-Pro Products Co. Knape & Vogt Mfg Co Laboratory Equip Corp Lake Drive Products Co Inc Lawrence Brothers Inc. Macklanburg-Duncan Co McKinney Mfg Co Mirra-Cote Co Inc Medalist Hardware Div Morgan-Wightman Co National Mfg Co Nordahl Sliding Door Frames Pacific Brass & Hardware Mfg Co Parker S Hdwe Mfg Corp Penn-Akron Corp Russell & Erwin Div American Hardware Safe Padlock & Hdwe Co Selck Walter E & Co Shelby Metal Prods Co Shelby Spring Hinge Co Sherle-Wagner Slaymaker Lock Co Som Mfg Co Stanley Hardware Div of Stanley Works Sterling John Corp Washington Steel Prods Western Lock Mfg Co Yale & Towne Mfg Co Yale Lock

Hardware, Closet (See Closet Accessories)

Hardware, Door Acme Appliance Mfg Co Acme Builders Acorn Mfg Co Ajax Hardware Corp Allister Mfg Co Inc Allith-Prouty Inc American Screen Products Co Amerock Corp



Baldwin Hardware Mfg Corp Challenger Lock Co Chicago Spring Hinge Co Colorado Fuel & Iron Corp Corbin P & F Div American Hardware Corp Dexter Lock Div Dexter Industries Earle Hardware Mfg Co

Fenestra Inc Frantz Mfg Co Getty H S & Co Inc Goshen Sash & Door Co Grand Specialties Co Grant Pulley & Hardware Corp Griffin Mfg Co Hager C & Sons Hinge Mfg Co Hardware Products Inc Harloc Products Corp Hinge Butt Template Ideal Brass Works Inc Independent Lock Co Ives H B Co Kant-Slam Door Check Co Kawneer Co Knape & Vogt Mfg Co Kwikset Div American Hardware Corp LCN Closers Inc Lawrence Brothers Inc Leigh Building Products Div Lockwood Hardware Mfg Co McKinney Mfg Co Medalist Hardware Div Morgan-Wightman Co

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Hardware, Garage, Upward Acting

Allith-Prouty Inc Ambassa Dor Co Atlas Overhead Door Co Barber Colman Overdoors & Operators Div Better-Bilt Door Co Calder Mfg Co Capitol Products Inc Colorado Fuel & Iron Corp Crawford Door Co Frantz Mfg Co Hager C & Sons Hinge Mfg Co Howell Mfg Co Lawrence Brothers Inc McKee Door Co Phenix Mfg Co Raynor Mfg Co Richards-Wilcox Mfg Co Stanley Hardware Div of Stanley Works Tavart Co Wagner Mfg Co Wel-Bilt Products Co Winfield Door Corp Yale & Towne Mfg Co Yale Lock

Hardware, Screen & Storm Sash
Ajax Hardware Corp
Colorado Fuel & Iron Corp
Corbin P & F Div American Hdwe Corp
Olson Mfg Co

Dennis W J & Co Earle Hardware Mfg Co Engineered Products Co Frantz Mfg Co Griffin Mfg Co Hager C & Sons Hinge Mfg Co Handy Things Mfg Co Ideal Brass Works Inc Independent Lock Co Kees F D Mfg Co Knape & Vogt Mfg Co Larson Chas O Co Lawrence Brothers Inc. Ludwig Mfg Co Inc McKinney Mfg Co Medalist Hardware Div National Mfg Co Parker S Hdwe Mfg Corp Russell & Erwin Div American Hdwe Corp Safe Padlock & Hdwe Co

Russell & Erwin Div American Hdwe Corp Safe Padlock & Hdwe Co Shelby Metal Prods Co Shelby Spring Hinge Co Slaymaker Lock Co Stanley Hardware Div of Stanley Works Triangle Mfg Co Vulcan Metal Prods Inc Washburn Co Western Lock Mfg Co Wright Prods Inc

Yale & Towne Mfg Co Yale Lock
Hardware, Shelf, Revolving
Amerock Corp



Ekco Products Co Griffin Mfg Co H & M Cabinet Service Knape & Vogt Mfg Co Triangle Mfg Co

Hardware, Sliding & Folding
Door

Acme Appliance Mfg Co Acme Builders Ajax Hardware Corp Allith-Prouty Inc American Screen Products Co B & T Metals Co Challenger Lock Co Clay Equipment Corp Colorado Fuel & Iron Corp Cox Arthur & Sons Inc Designware Industries Inc Dexter Lock Div Dexter Industries Ekco Products Co Engineered Products Co Frantz Mfg Co Grant Pulley & Hardware Corp Hager C & Sons Hinge Mfg Co Ives H B Co Kennatrack Corp Sub Ekco Prods Knape & Vogt Mfg Co Labrie Mfg Co Inc Lanebro Mfg Co Lawrence Brothers Inc Leigh Building Products Div Lockwood Hardware Mfg Co Louden Machinery Co Macklanburg-Duncan Co McKinney Mfg Co

National Mfg Co Nordahl Sliding Door Frames Olson Mfg Co Pacific Brass & Hardware Mfg Co Parker S Hdwe Mfg Corp Paxton Frank Lumber Co Peters Jas & Son Richards-Wilcox Mfg Co Roberts Co. Russell & Erwin Div American Hdwe Corp Safe Padlock & Hardware Co Stanley Hardware Div of Stanley Works Starline Inc Sterling John Corp Wagner Mfg Co Washington Steel Prods Western Lock Mfg Co Yale & Towne Mfg Co Yale Lock

Hardware, Structural
Ajax Building Bracket Co
Arro Expansion Bolt Co
Cleveland Steel Specialty Co
Dayton Sure-Grip & Shore Co
Donley Brothers Co
Gang Nail Sales Co Inc
Hosking John H Co
Jordan Industries



Mueller Brass Co Newark Ladder & Bracket Co Inc

Hardware, Window
A R B Window Sales Co
Ajax Hardware Corp
Allmetal Weatherstrip Co
Amerock Corp
Central Metal Strip Co
Corbin P & F Div American Hdwe Corp
Cox Arthur & Sons Inc
Dayton Sure-Grip & Shore Co
Dexter Lock Div Dexter Industries
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Frantz Mfg Co
Getty H S & Co Inc
Grand Rapids Hardware Co
Hager C & Sons Hinge Mfg Co
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Heat Pumps (See Pumps, Heat)

Heaters, Bathroom Adam Frank Electric Co Adams Bros Mfg Co Inc Allied Precision Indus Inc American Standard Air Conditioning Div **Ampere Industries** Armstrong Products Corp Berko Electric Mfg Corp Berns Air King Corp Broan Mfg Co Inc Cavalier Corp Ceilheat Inc Chattanooga Royal Co Dixie Raydiant Electric Heat Corp Dover Corp Peerless Mfg Div **Electrend Products Corp** Electromode Div Commercial Controls

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Heaters, Contractors, Portable
Adams Bros Mfg Co Inc
American Air Filter Co
Ampere Industries
Armstrong Products Corp
Berko Electric Mfg Corp
Bica Co
Ceilheat Inc
Coleman Co Inc
Columbia Brick Works
Donley Brothers Co
Electromode Div Commercial Controls
Fasco Industries Inc
Goldblatt Tool Co
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Insto-Gas Corp Jackson Mfg Co Kelley Mach Div Wiesner-Rapp Co Inc Master Vibrator Co. Midland Products Co Newark Ladder & Bracket Co Inc Ohio Foundry & Mfg Co Perfection Industries Div Hupp Corp Silent Glow Oil Burner Co Stiglitz Corp Stow Mfg Co Suburban Propane Gas Corp Syro Steel Co. Thermador Elec Mig Co Vulcan Electric Co Western Metal Specialty Div Westinghouse Electric Corp Wiegand Edwin L Co

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Heating Controls
(See Controls, Heating)
Heating Registers
(See Registers, Heating & Ventilating)

Heating Systems, Electric Albien Div McGraw-Edison Co Allied Precision Indus Inc American Standard Air Conditioning Div **Ampere Industries** Arvin Industries Inc Berko Electric Mfg Corp Burnham Corp Warm Air & Cooling Div Carrier Corp Cavalier Corp Ceilheat Inc Coleman Co Inc Continental Radiant Glass Heating Dixie Raydiant Electric Corp Edwards Engineering Corp **Electrend Products Corp** Electromode Div Commercial Controls



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Embassy Steel Prods Inc Emerson Electric Mfg Co Emerson-Pryne Co Everwarm Inc Fasco Industries Inc General Elec Co Construction Materials General Electric Co Wiring Device Dept Gerwin Industries Inc Heatmore Inc Henry Furnace Co Hunter Div-Robbins & Myers Inc ILG Electric Ventilating Co Insto-Gas Corp International Oil Burner Co Lennox Industries Inc Majestic Co Inc. Markel Electric Prods Inc Meier Electric & Machine Co Inc Modine Mfg Co Muncie Gear Co Northwest Foundry & Furnace Co Olsen C A Mfg Co Precision Parts Corp Rybolt Heater Co Slant-Fin Radiator Corp Stewart-Warner Corp Sunwarm Inc Thermador Elec Mfg Co Typhoon Heat Pump Co Div Hupp Corp Vulcan Electric Co Vulcan Radiator Wesix Electric Heater Co Westinghouse Electric Corp Wiegand Edwin L Co Williamson Co York Corp Sub Borg-Warner

Heating Systems, Forced

Warm Air Airtemp Div Chrysler Corp American Standard Air Conditioning Div Arkla Air Conditioning Corp Bryant Mfg Co Burnham Corp Warm Air & Cooling Div Carrier Corp Coleman Co Inc Crane Co Day & Night Mfg Co Delco Appliance Div General Motors Electrend Products Corp **Electromode Div Commercial Controls** Evans Brick Co Fasco Industries Inc Gaffers & Sattler Div General Automatic Products Corp General Electric Co Air Cond Dept Gerwin Industries Inc Gilbert & Barker Mfg Co International Oil Burner Co Holland Furnace Co Holly-General Co Div Siegler Corp Hunter Div-Robbins & Myers Inc Kresno-Stamm Corp Lennox Industries Inc Little H C Burner Co Majestic Co Inc Meyer Furnace Co Monogram Industries Inc Morrison Steel Products Inc Motor Wheel Corp Duo-Therm Div Pebbco Industries Inc Perfection Industries Div Hupp Corp Pioneer Mfg Co Roberts Gordon Appliance Corp Temco Inc Trane Co Westinghouse Electric Corp Wiegand Edwin L Co Williamson Co

Heating Systems, Hot Water & Steam Aldrich Co

Aldrich Co
American-Standard Plumbing & Heating Div
Bastian-Morley Co Inc
Bell & Gossett Co
Brown Prods Co
Airtemp Div Chrysler Corp
American Furnace Co
Bryant Mfg Co
Burnham Corp Heating & Cooling Div

Carrier Corp
Crane Co
Delco Appliance Div General Motors
Dunham-Bush Inc
Dunkirk Radiator Corp
Edwards Engineering Corp
Embassy Steel Prods Inc
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Fedders Corp
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Gilbert & Barker Mfg Co International Oil Burner Co Hoffman Specialty Mfg Corp Hydrotherm Inc Johnson S T Co Koven L O & Bro Inc Kresno-Stamm Corp Kritzer Radiant Coils Inc Little H C Burner Co Lookout Boiler & Mfg Co Modine Mfg Co Mueller Climatrol Div Worthington Corp Neshitt John J Inc. Pebbco Industries Inc Peerless Heater Co Precision Parts Corp Roberts Gordon Appliance Corp Rund Mfg Co. Slant-Fin Radiator Corp Smith A O Corp Permaglas Div Simth H B Co Smith & Loveless Div Stewart-Warner Corp Stratton Terstegge Co Suburban Propane Gas Corp Taco Heaters Inc Thrush H A & Co Toridheet Div Cleveland Steel Prods Corp Trane Co Triplex Heating Specialty Co Inc Utica Radiator Corp Viking Mfg Corp Vulcan Radiator Co Waterfilm Boilers Wayne Home Equpiment Co Inc Weil-McLain Co Williams Oil-O-Matic Heating Co Div York-Shipley Inc Young Radiator Co

Heating Systems, Radiant Allied Precision Indus Inc Ampere Industries

Bell & Gossett Co
Berko Electric Mfg Corp
Burgess-Manning Co
Burnham Corp Heating & Cooling Div
Byers A M Co
Ceilheat Inc
Continental Radiant Glass Heating
Corona Mfg Corp
Electromode Div Commercial Controls
Crane Co
Emerson-Pryne Co
Everwarm Inc
Fasco Industries Inc
General Electric Co Wiring Device
Heatmore Inc
Heil-Quaker Corp
Hunter Div-Robbins & Myers Inc

Hydrotherm Inc

Insta-Matic Heater Co Kritzer Radiant Coils Inc Precision Parts Corp Reflectotherm Inc. Rempe Co Stratton Terstegge Co Sunwarm Inc. Taco Heaters Inc Thermador Elec Mfg Co Thrush H A & Co Toridheet Div Utica Radiator Corp. Viking Mfg Corp Vulcan Electric Co Wesix Electric Heater Co Wiegand Edwin L Co. York-Shipley Inc

Hemlock Lumber (See Lumber, Hemlock)

Hinges Acorn Mig Co Ajax Hardware Corp Amerock Corp



Austin & Eddy Inc Carey-McFall Co Chicago Spring Hinge Co Corbin P & F Div American Howe Corp Frantz Mfg Co Gensco Tools Griffin Mfg Co Hager C & Sons Hinge Mfg Co Ideal Brass Works Inc Knape & Vogt Mfg Co Lawrence Brothers Inc Leeds Edward & Co McKinney Mfg Co Medalist Hardware Div Miracle Hinge Co Morgan-Wightman Co National Mfg Co Pacific Brass & Hardware Mfg Co Parker's Hdwe Mfg Corp Paxton Frank Lumber Co Penn-Akron Corp Richards-Wilcox Mfg Co Russell & Erwin Div American Hdwe Corp Safe Padlock & Hardware Co Shelby Spring Hinge Co Stanley Hardware Div of Stanley Works Wagner Mfg Co Wright Prods Inc

Hinges, Invisible Amerock Corp Lehman Specialty Co

Medalist Hardware Div Parker S Hdwe Mfg Corp Penn-Akron Corp Richards-Wilcox Mfg Co Soss Mfg Co

Washington Steel Prods

Hoists & Derricks
American Engineering Co Div
American Hoist & Derrick Co
Bil-Jax Inc
C H & E Mfg Co
Chicago Pneumatic Tool Co
Clyde Iron Works Inc
Coffing Hoist Div
Construction Machinery Co
Gardner-Denver Co

Grand Specialties Co Hewitt-Robins Inc Ingersoll-Rand Co Jaeger Machine Co King Mfg Co Lewis-Shepard Products Inc Louden Machinery Co Manning Maxwell & Moore Inc McCabe Powers Body Co Muller Machinery Co Inc Novo Pump & Engine Co Patent Scaffolding Co Pitman Mfg Co Proctor Products Co Reiman & Georger Inc Robbins & Myers Inc Round David & Son Inc Sasgen Derrick Co Shepard Niles Crane & Hoist Corp Silent Hoist & Crane Co Smith Hoist Mfg Co Thor Power Tool Co Tubular Structures Corp of America Uhrden Inc Witch Marketing Co Yale Materials Handling Div

Hoists, Truck
Coffing Hoist Div
Equipment Div Young Spring & Wire
Gallon Allsteel Body Co
Gar Wood Industries Inc
Manning Maxwell & Moore Inc
McCabe Powers Body Co
Sasgen Derrick Co
Schwartz Mfg Co
Silent Hoist & Crane Co
Uhrden Inc

Hoods, Range



Aubrey Hardware Mfg Inc Berns Air King Corp Broan Mfg Co Inc Cal Vent Mfg Co. Caloric Appliance Corp Carey Philip Mfg Co Ductless Hood Co Inc Emerson-Pryne Co Fasco Industries Inc Gaffers & Sattler Div Gray & Dudley Co Gregg & Son Inc Jenssen Industries Kitchen Kompact Inc Leigh Building Products Div Major Industries Inc Miami Cabinet Div Philip Carey Mfg Morgan-Wightman Co National Stove Co NuTone Inc Paxton Frank Lumber Co Preway Inc Progress Mfg Co Inc Puritron Corp Roberts Co Roberts Mfg Co Stanthony Corp Stewart Industries Inc. Swanson Mfg Co Tennessee Stove Works Trade-Wind Div Robbins & Myers Inc Universal Blower Co Vent-A-Hood Co Ventrola Mfg Co Zenith Metal Products Co Houses, Manufactured

Houses, Manufactured (See Directory of Home Manufacturers)

Humidifiers
Abbeon Supply Co
Albion Div McGraw-Edison Co

Carrier Corp
Coolerator McGraw-Edison
Cory Corp
Dayton Electric Mfg Co
Emerson-Pryne Co
Lennox Industries Inc
Mueller Climatrol Div
Research Products Corp
Skuttle Mfg Co
Ware Laboratories Inc
York Corp Sub Borg-Warner

Incinerators Adams Co Alsto Co American Incinerator Corp Rastian-Morley Co Inc Brule Incinerator Corp Calcinator Corp Caloric Appliance Corp Columbia Brick Works Donley Brothers Co Goder Joseph Incinerators Henry Furnace Co Holland Furnace Co Incinerator Products Co Industrial Iron Works Kerner Incinerator Div Lennox Industries Inc Little H C Burner Co Locke Stove Co Majestic Co Inc Mustee E L & Sons Inc Northwest Metal Products Inc Olsen C A Mfg Co Outdoor Oven Fireplace Co Suburban Propane Gas Corp Syrall Mfg Co

Instruments, Surveying
Berger C L & Sons
Bostrom-Brady Mfg Co
David White Instrument Div
Dietzgen Eugene Co
General Hardware Mfg Co Inc.
Geo-Optic Co
Goldblatt Tool Co
Hopkins Mfg Corp
Keuffel & Esser Co
Lufkin Rule Co
Morgan-Wightman Co
Starrett L S Co
Warren-Knight Co

Insulating Board, Plank & Tile (See also Sheathing, Insulating Board)

Allied Chemical Corp Barrett Div Armstrong Cork Co Barclay Mfg Co Inc Celotex Corp Cemex of Arizona Certain-Teed Products Corp Flintkote Co Forty-Eight Insulations Inc Insulite Div Minn & Ontario Paper Co Johns-Manville Corp Kaiser Gypsum Co Inc National Gypsum Co Paxton Frank Lumber Co Plastergon Wall Board Co Protective Products Co Reynolds Aluminum Supply Co Rubatex Div Of Great American Indus Ruberold Co Simpson Timber Co United States Gypsum Co Wolverine Porcelain Enameling Co Wood Conversion Co

Insulating Lath
(See Lath, Insulating)
Insulating Plaster
(See Plaster, Insulating)

Insulation, Aluminum Foil Abbeen Supply Co Alseo Inc Alside Inc American Sisalcraft Corp Certain-Teed Products Corp Cerson G & W H Inc Delta Co Infra Insulation Inc Janesville Cotton Mills Kaiser Aluminum & Chemical Corp Kaiser Aluminum & Chemical Sales Inc Lehon Co Lifetime Industries Inc Lockport Mills Inc. Logan-Long Co Ludlow Papers Div of Ludlow Corp Lyf-Alum Inc Protective Papers Inc Quaker State Metals Co Reflectal Corp Sub Borg Warner Reynolds Aluminum Supply Co Reynolds Metals Co Ruberold Co. Silvercote Prods Inc Thilmany Pulp & Paper Co U S Mineral Wool Co Wilson Grant Inc.

Insulation, Batt or Blanket, Cotton Fiber

Barnhardt Mfg Co Janesville Cotton Mills Lockport Mills Ine Logan-Long Co Reynolds Aluminum Supply Co Taylor Mfg Co INS-Cotton Div United States Rubber Co

Insulation, Batt or Blanket,

Fiber Glass Armstrong Cork Co Berger Insulation Co Inc Certain-Teed Products Corp Flintkote Co Forty-Eight Insulations Inc Gustin-Bacon Mfg Co Insulite Div Minnesota & Ontario Paper Co Johns-Manville Corp Kochton Plywood & Veneer Co Inc Logan-Long Co Owens-Corning Fiberglas Corp Pittsburgh Plate Glass Co Reynolds Aluminum Supply Co Ruberold Co Sealtite Insulation Mfg Corp Silvercote Prods Inc Texas Vermiculite Co Tiger Brands Inc Sub of Basic Inc Vermiculite-Northwest Inc.

Insulation, Batt or Blanket, Mineral Wool

Allied Chemical Corp Barrett Div Baldwin-Ehret-Hill Inc Berger Insulation Co Inc Carey Philip Mfg Co Carney Co Inc Celotex Corp Chamberlin Co of America Corson G & W H Inc Eagle-Picher Co Forty-Eight Insulations Inc Insul-Wool Insulation Corp Johns-Manville Corp Kaiser Gypsum Co Inc Lehon Co Logan-Long Co National Gypsum Co National Mfg Corp Reynolds Aluminum Supply Co Sealtite Insulation Mfg Corp Tiger Brands Inc Sub of Basic Inc United States Gypsum Co U S Mineral Wool Co

Insulation, Batt or Blanket, Wood Fiber Berger Insulation Co Inc

Berger Insulation Co Inc Pal-O-Pak Insulation Co Inc Reeves Brothers Inc Reynolds Aluminum Supply Co Weyerhaeuser Co Silvatek Div Wood Conversion Co

Insulation, Board, Fiber Abitibi Corp Air O-Cel

Allied Chemical Corp Barrett Div Alsco Inc American Sisalkraft Corp Bird & Son Inc Carey Philip Mfg Co Celotex Corp Cemex Of Arizona Certain-Teed Products Corp Creo-Dipt Co Inc. Dierks Forests Inc Flintkote Co Homasote Co Insulite Div Minnesota & Ontario Paper Co Johns-Manville Corp Keasbey & Mattison Co Logan-Long Co National Gypsum Co Paxton Frank Lumber Co Plastergon Wall Board Co Reynolds Aluminum Supply Co Ruberoid Co Simpson Timber Co Southern Pine Lumber Co United States Gypsum Co Weatherbest Corp Wilson Grant Inc. Wood Conversion Co

Insulation, Glass Cellular Pittsburgh Corning Corp Reynolds Aluminum Supply Co

Insulation, Granular Fill Acme Brick Co Armstrong Cork Co Berger Insulation Co Inc Certain-Teed Products Corp Dodson Mfg Co Inc Eagle-Picher Co Forty-Eight Insulations Inc. Graybeal C R & Sons Great Lakes Carbon Corp Perlite Dept Johns-Manville Corp Reynolds Aluminum Supply Co Ruberoid Co Texas Vermiculite Co U S Mineral Wool Co Vermiculite-Northwest Inc. Waylite Co. Wilson Grant Inc

Zanalite Co Insulation, Rigid Foamed Plastic

Alside Inc
Bi-Products Corp
Consolidated General Prod Inc
Corson G & W H Inc
Dow Chemical Co
Gilman Bros Co
Nopeo Chemical Co
Reeves Brothers Inc
Sterling Alderfer Co
Uni-Crest Div United Cork
United Cork Companies
U S Mineral Wool Co

Insulation, Roof, Deck (See Decking Insulating)

Insulation, Slab Edge
Baldwin-Ehret-Hill Inc
Berger Insulation Co Inc
Certain-Teed Products Corp
Dow Chemical Co
Porty-Eight Insulations Inc
Meadows W R Inc
National Gypsum Co
Owens-Corning Fiberglas Carp
Ruberuld Co
Simpson Timber Co
Tiger Brands Inc Sub of Basic Inc
U S Mineral Wool Co

Insulation, Spray On
Bi-Products Corp
Evercrete Corp
Great Lakes Carbon Perlite Dept
Green A P Fire Brick Co
Keasbey & Mattison Co
Mortell J W Co
Nopco Chemical Co
Quigley Co Inc
Sealtite Insulation Mfg Corp

Texas Vermiculate Co U S Mineral Wool Co Vermiculite-Northwest Inc Zonolite Co

Intercoms & Radios Commercial Sound Div Emerson Electric Mfg Co Emerson-Pryne Co Executone Inc Fanon Electronic Industries Inc Flush Wall Radio Co Home Music Systems Inc Kaar Engineering Corp Morgan-Wightman Co Motorola Communications & Electronics Music & Sound Inc Progress Mfg Co Inc RCA Service Co Div of RCA Rittenhouse Co Inc Roberts Mfg Co Simpson Mark Mfg Co Inc Swanson Mfg Co Talk-A-Phone Co Talk-A-Radio Mfg Co Touch-Plate Mfg Corp Trade-Wind Div Robbins & Myers Inc Webster Electric Co.

Iron, Ornamental (See Ornamental Iron)

Ironers, Built-In Armstrong Products Corp Ironrite Inc

Jocks, Ceiling Coffing Hoist Div Gypsum Ceiling Jack Co Wolfe Products Inc

Jambs, Metal (See Frames, Door & Window) Jointers (See Planers & Jointers) Joist Bridging (See Steel, Structural)

Joists, Concrete, Precast Colorerete Industries Inc Flexicore Co Inc Stone Products Co

Joists, Steel
Bethlehem Steel Co
Ceco Steel Prods Corp
Haven-Busch Co
International Steel Co
Jones & Laughlin Steel Corp
Laclede Steel Co
Macomber Inc
Penn Metal Co Inc
Republic Steel Corp
Republic Steel Corp Truscon Div
Ryerson Joseph T & Son
Sheffield Div Armco Steel Corp
United States Steel Corp
Woodside Engineering Co

Kitchen Appliances (See Ranges & Ovens; also Refrigerators, etc.)

Kitchen Cabinets, Metal Beautycraft Kitchens Div Miller Metal Dwyer Products Corp Elier Co General Electric Co Major Appliance General Metalcraft Inc Olympia Div Geneva Modern Kitchens Kelvinator Div American Motors Co Kitcheneering Co of America Kohler Co Marvel Metal Prods Co Morgan-Wightman Co Oakland Foundry Co Republic Steel Corp Republic Steel Corp Berger Div St Charles Mfg Co Standard Building Products Co Toledo Desk & Fixture Co United Metal Cabinet Corp

Walter Mfg Co Youngstown Kitchens Zenith Metal Products Co

Kitchen Cabinets, Wood

Atkins Wood Products Corp Beautycraft Kitchens Div Miller Metal Belwood Industries Inc. Boise Cascade Corp Boro Wood Prods Co Inc Brammer Mfg Co Caradeo Inc. Colonial Products Co Connor Lumber & Land Co Coppes Inc Curtis Companies Inc Farley & Loetscher Mfg Co Gregg & Son Inc Hyde Park Products Co I-XL Furniture Co Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Kitchen Kompact Inc Kitchen Maid Corp Kitcheneering Co of America Major Line Products Co Inc Marsh Furniture Co Marvel Metal Prods Co Mengel Co Merillat Woodworking Co Morgan Company



Mutschler Bros National Kitchens Nevamar Carefree Kitchens Nobelcraft Industries Inc Peerless-Wood Products Pemline Mfg Co Precisionware Inc

Morgan-Wightman Co

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Rieter Woodwork Specialty Co
Royal Woodwork Inc
Scheirich H J Co
Schenck William & Co
Southern Mill & Mfg Co
Spokane Sash & Door Co
Standard Steel Cabinet Co
Texboro Cabinet Corp
Westinghouse Electric Appliance Div
Wood Metal Industries

Kitchens, Efficiency Douglas Crestlyn International Inc Dwyer Products Corp Major Line Products Co Inc

Ladders & Accessories (See also Scaffolding & Shoring)

Abbeon Supply Co
Ajax Building Bracket Co
Babcock W W Co Inc
Ballymore Co
Bauer Mfg Co
Berg John Mfg Co
Bill-Jax Inc
Bradley Southern Div Potlatch Forests
Clayton Mark & Co
Dayton Safety Ladder Co
Duo-Cafety Ladder Corp
Goshen Churn & Ladder Inc
Holland Ladder & Mfg Co

Holms Mfg Co of Ohio Howard Mfg Co Larson Ladder Co Louisville Ladder Co. Mayes Bros Tool Mfg Co Michigan Ladder Co Mouton Ladder Mfg Co Newark Ladder & Bracket Co Inc Patent Scaffolding Co Philadelphia Screen Mfg Co Rich Howard B Inc Richbilt Mfg Co Tilley John S Ladders Co Inc. Utility Body Co Werner R D Co Inc Zoss Ladder & Mfg Co

Laminated Plastic (See Plastic Laminates) Latches (See Hardware, Cabinet; Hardware, Door; Hardware, Window)

Lath, Gypsum
Allied Chemical Corp Barrett Div
Bestwall Gypsum Co
Celotex Corp
Flintkote Co
Grand Rapids Gypsum Co
Kaiser Gypsum Co Inc
National Gypsum Co
Ruberoid Co
United States Gypsum Co

Lath, Insulating
Bestwall Gypsum Co
Grand Rapids Gypsum Co
National Gypsum Co
Plastergon Wall Board Co
United States Gypsum Co

Lath, Metal & Accessories (See also Moldings, Metal) Alabama Metal Lath Co Inc

Alabama Metal Lath Co Inc
B & T Metals Co
Bostwick Steel Lath Co
Casings Inc & Drywall Trim Div
Ceco Steel Prods Corp
Goldsmith Metal Lath Co
Inland Steel Products Co
Keystone Steel & Wire Co
Klauer Mfg Co
Manhattan Terrazzo Brass Strip
National Gypsum Co
Penn Metal Co Inc
Power Line Sales Inc
Republic Steel Corp Truscon Div
Reynolds Aluminum Supply Co
Richkraft Co
Sanymetal Products Co Inc
United States Gypsum Co
Wheeling Corrugating Co

Laundry Tubs (See Tubs, Laundry)

Levels, Carpenters & Masons Berger C L & Sons Bostrom-Brady Mfg Co Columbia Brick Works Empire Level Mfg Co General Hardware Mfg Co Inc Goldblatt Tool Co Graham John H & Co Inc Hall Level & Mfg Works Hydrolevel Levelall Macklanburg-Duncan Co Mayes Bros Tool Mfg Co Millers Falls Co Oxwall Tool Co Ltd Peerless Level & Tool Co Pickett Products Inc Port Austin Level & Tool Mfg Co Sands Level & Tool Co Scharf J H Mfg Co Simplex Level Co

Stortz John & Son Inc
Lighting Controls
(See Wiring Systems)

Stanley Tools

Starrett L S Co

Lighting Fixtures
(See Fixtures, Electric Lighting)

Lighting, Outdoor, Gas Adjusta Post Mfg Co Arkla Air Conditioning Corp Curtis-Allbrite Lighting Inc General Gas Light Co Jay Lighting Mfg Co Inc Roberts Gordon Appliance Corp Wolfe Products Inc

Lightning Rods
Boston Lightning Rod Co
Electra Mfg Co
Independent Protection Co Inc
Limestone

(See Stone, Limestone)
Liners, Concrete Form
(See Concrete Form Liners)
Linoleum, Roll & Tile
Armstrong Cork Co

Armstrong Cork Co Bird & Son Inc Congoleum-Nairn Inc Fiberboard Paper Prods Inc Flinkote Co Kochton Plywood & Veneer Co Inc

Lintels, Steel (See Steel, Structural) Loaders

(See Tractor Attachments & Bulldozer Attachments) Locks, Door & Cabinet (See Hardware, Door) Louver Doors (See Doors, Louver)

Louvers (See Ventilators, Roof & Wall; also Registers, Heating)

Lumber, Birch
Atlanta Oak Flooring Co
Commonwealth Lumber Corp
Connor Lumber & Land Co
Georgia Pacific Corp
Goodman Lumber Div Calumet & Hecla
Hardwood Corp of America
Hines Edward Lumber Co
Horner Flooring Co
Meadow River Lumber Co
Mower Lumber Co
Paxton Frank Lumber Co
Robbins Flooring Co
Veach-May-Wilson Inc
Youngblood Lumber Co

Lumber, Cypress
Arrow Tank Co Inc
Atlanta Oak Flooring Co
Bradley Southern Div
Georgia Pacific Corp
Hardwood Corp of America
Hillyer-Deutsch-Edwards Inc
Hines Edward Lumber Co
National Forest Prods Co
Phillips Ryhne Lumber Co Inc
Southern Pine Lumber Co
Triplett Lumber Co Inc
Youngblood Lumber Co

Lumber, Fir, Douglas Arrow Tank Co Inc. Baxter J H & Co Boise Cascade Corp Brookings Plywood Corp Brooks-Scanlon Inc Cascade Lumber Co Div Boise-Cascade Contact Lumber Co Deer Park Pine Industry Inc Diamond Lumber Co Evans Products Co Exchange Sawmills Sales Co Firpine Products Co Georgia Pacific Corp Giustina Brothers Lumber Co Hines Edward Lumber Co International Paper Co Long-Bell Kochton Plywood & Veneer Co Inc Martin Bros Cont & Timber Prods Corp Mauk Seattle Lumber Co Menasha Sales Corp Miller George E Lumber Co Neils J Lumber Co Div St Regis Paper Pacific Lumber Co Pacific Mutual Door Co Pope & Talbot Inc Robinson Plywood & Timber Co Rosboro Lumber Co Simpson Timber Co Snellstrom Lumber Co Summit Sales Co Timber Products Co U S Plywood Corp California Div United States Plywood Corp Weyerhaeuser Co Lumber & Plywood Div Willamette Valley Lumber Co Winton Lumber Sales Co Youngblood Lumber Co.

Lumber, Gum Angelina Hardwood Sales Co Bradley Southern Div Commonwealth Lumber Corp Fair D L Lumber Co Fordyce Lumber Co Galloway Lumber Co Georgia Pacific Corp Hardwood Corp of America Hines Edward Lumber Co International Paper Co Long-Bell Div National Forest Prods Co Payton Frank Lumber Co. Smith W T Lumber Co Southern Pine Lumber Co Texoak Flooring Co Tibbals Flooring Co United States Plywood Corp Veach-May-Wilson Inc Williams J L & Sons Youngblood Lumber Co

Lumber, Hemlock, Western Commonwealth Lumber Corp Diamond Lumber Co Georgia Pacific Corp Giustina Brothers Lumber Co Hines Edward Lumber Co International Paper Co Long-Bell Div Kochton Plywood & Veneer Co Inc Martin Bros Cont & Timber Prods Carp Mauk Seattle Lumber Co Miller George E Lumber Co Neils J Lumber Co Div St Regis Paper Co Pacific Mutual Door Co Pope & Talbot Inc Robinson Plywood & Timber Co Rosboro Lumber Co Simpson Timber Co Southern Mill & Mfg Co Summit Sales Co United States Plywood Corp Weyerhaeuser Co Lumber & Plywood Div Willamette Valley Lumber Co Winton Lumber Sales Co Lumber, Mahogany Atlanta Oak Flooring Co Gregg & Son Inc

International Paper Co Long-Bell Div Mauk Seattle Lumber Co Paxton Frank Lumber Co Youngblood Lumber Co Lumber, Maple Arrow Tank Co Inc.
Atlanta Oak Flooring Co Commonwealth Lumber Corp Connor Lumber & Land Co Cook F C & Co Calloway Lumber Co Georgia Pacific Corp Goodman Lumber Div Calumet & Hecla Griffith Lumber Co Hardwood Corp of America Hines Edward Lumber Co Horner Flooring Co McMinnville Mfg Co Meadow River Lumber Co Mower Lumber Co

Hardwood Corp of America

Tibbals Flooring Co Veach-May-Wilson Inc Williams J L & Sons Yawkey Bissell Hardwood Flooring Co Youngblood Lumber Co

Lumber, Oak, Red & White Angelina Hardwood Sales Co Arkansas Oak Flooring Co Arrow Tank Co Inc Atlanta Oak Flooring Co Bradley Southern Div Commonwealth Lumber Corp Cook F C & Co Crossett Lumber Co. Fair D L Lumber Co Fordyce Lumber Co Galloway Lumber Co Georgia Pacific Corp Goodman Lumber Div Calumet & Hecla Griffith Lumber Co Grissom-Rakestraw Lumber Co Hardwood Corp of America Hines Edward Lumber Co McMinnville Mfg Co Meadow River Lumber Co Memphis Hardwood Flooring Co Miller Bros Co Mower Lumber Co National Forest Prods Co Paxton Frank Lumber Co Robbins Flooring Co Smith W T Lumber Co Texoak Flooring Co Tibbals Flooring Co Tremont Lumber Co Veach-May-Wilson Inc Virginia Oak Flooring Co Inc Williams J L & Sons Yawkey Bissell Hardwood Flooring Co Youngblood Lumber Co

Lumber, Pine Arrow Tank Co Inc Boise Cascade Corp Bradley Southern Div Potlatch Forests Inc Brooks-Scanlon Inc Bruce E L Co Cascade Lumber Co Div of Boise-Cascade Commonwealth Lumber Corp Connor Lumber & Land Co Contact Lumber Co Crossett Lumber Co Deer Park Pine Industry Inc Dierks Forests Inc Exchange Sawmills Sales Co Fair D L Lumber Co Firpine Products Co Fordyce Lumber Co Galloway Lumber Co Georgia Pacific Corp Goodman Lumber Div Calumet & Hecla Grissom-Rakestraw Lumber Co Hardwood Corp of America Hillyer-Deutsch-Edwards Inc Hines Edward Lumber Co International Paper Co Long-Bell Div Kochton Plywood & Veneer Co Inc Mauk Seattle Lumber Co National Forest Prods Co Neils J Lumber Co Div St Regis Paper Ostin David Moulding Corp Ozan Lumber Co Pacific Mutual Door Co Paxton Frank Lumber Co Phillips Ryhne Lumber Co Inc Pickering Lumber Corp Smith M R Shingle Co Smith W T Lumber Co Southern Mill & Mfg Co Timber Products Co Tremont Lumber Co Triplett Lumber Co Inc U S Plywood Corp California Div United States Plywood Corp Veach-May-Wilson Inc Weyerhaeuser Co Lumber & Plywood Div Willis Lumber Co Inc Winten Lumber Sales Co Woodward Lumber Co Youngblood Lumber Co

Lumber, Pressure Treated Baxter J H & Co Crossett Lumber Co

Lumber, Redwood
Arcata Redwood Co
Arrow Tank Co Inc
Georgia Pacific Corp
Kochton Plywood & Veneer Co Inc
Mauk Seattle Lumber Co
Pacific Lumber Co
Pactine Lumber Co
Paxton Frank Lumber Co
Redwood Sales Co
Southern Mill & Mfg Co
Willits Redwood Products Co
Winton Lumber Sales Co
Youngblood Lumber Co
Machines, Concrete Flooring
(See Concrete Finishing

Machines)
Machines, Nailing
(See Nailing Machines)
Machines, Office
(See Office Machines &
Equipment)
Marble
(See Flooring & Wall Covering,
Marble; also Stone, Marble)
Masonry Tools
(See Tools, Masons, Plasterers)
Mesh, Reinforcing
(See Reinforcing Bars & Mesh)
Metal Lath & Moldings
(See Lath, Metal; also
Moldings, Metal)

Millwork & Moldings, Wood Angelina Hardwood Sales Anson & Gilkey Co Arkansas Oak Flooring Co Belwood Industries Inc Bendix Mouldings Inc Boise Cascade Corp Bradley Southern Div Potlatch Forests Brooks-Scanlon Inc Bruce E L Co Caradeo Inc Cloud Oak Flooring Co Commonwealth Lumber Corp Connor Lumber & Land Co Contact Lumber Co Cook A B Co Curtis Companies Inc Dierks Forests Inc Elliott Bay Mill Co Farley & Loetscher Mfg Co Firpine Products Co Gregg & Son Inc Grinnell Sash & Door Co Hardwood Corp of America Harris Mfg Co Heller W C & Co Hines Edward Lumber Co International Paper Co Long-Bell Div Marsh Lumber Co Martin Bros Cont & Timber Prods Corp Mauk Seattle Lumber Co Memphis Hardwood Flooring Co Morgan Company Morgan-Wightman Co Mutual Fir Column Co National Forest Prods Co Ostin David Moulding Corp Ozark Oak Flooring Co Pacific Mutual Door Co Paxton Frank Lumber Co Philadelphia Screen Mfg Co Plywall Prods Co Rock Island Millwork Co Factory Div Seattle Cedar Lumber Mfg Co Southern Mill & Mfg Co Spokane Sash & Door Co Tremont Lumber Co Tyee Lumber Mfg Co United States Plywood Corp Virginia Oak Flooring Co Inc

Paxton Frank Lumber Co

Robbins Flooring Co

Weyerhaeuser Co Lumber & Plywood Div Weyerhaeuser Co Roddis Div Winton Lumber Sales Co

Mixers, Concrete (See Concrete Mixers)

Moldings, Hardboard Afeo Corp Commonwealth Lumber Corp Harris Hardwood Co Inc Marsh Wall Products Inc Tex-A-Panel Mfg Co

Moldings, Metal

Afco Corp Alabama Metal Lath Co Inc Alside Inc Aluminum Co of America B & T Metals Co Barclay Mfg Co Inc Bendix Mouldings Inc Blum Julius & Co Inc Bostwick Steel Lath Co Casings Inc & Drywall Trim Div Central Metal Strip Co Chamberlin Co of America Chase Brass & Copper Inc Colonial Moulding & Frame Co Inc Consoweld Corp Formetal Inc Francis H A & Co Inc Goldsmith Metal Lath Co Inland Steel Products Co Kawneer Co Kinkead Industries Inc Lifetime Industries Inc Loxcreen Co Inc Macklanburg-Duncan Co Marsh Wall Products Inc Metal Trims Inc Miraplas Tile Co Mueller Brass Co National Gypsum Co National Metal Prods National Window Corp Nichols Wire & Aluminum Co Parker S Hdwe Mfg Corp Penn Metal Co Inc Pittsburgh Plate Glass Co Prestile Mfg Co Pyramid Mouldings Inc Revere Copper & Brass Inc Reynolds Aluminum Supply Co Screens & Fabric Metals Corp Roberts Co. Selck Walter E & Co Superior Industries Inc Tex-A-Panel Mfg Co United Industries Inc. United States Gypsum Co United States Plywood Corp Vulcan Metal Prods Inc Wallace Mfg Co Wells Aluminum Corp Werner R D Co Inc

Moldings, Plastic Azrock Floor Products Div Uvalde Rock Blum Julius & Co Inc Consoweld Corp Francis H A & Co Inc Hartglass Co J & B Plastics Co Inc Johnson Plastics Corp Kentile Inc Kessler Products Co Marsh Wall Products Inc National Plastic Products Co United States Rubber Co

Wheeling Corrugating Co

Woodside Engineering Co

Winter Seal Corp

Youngstown Mfg Inc

Yeck Mfg Co

Moldings, Rubber Asphalt Corp of America Goodrich B F Co Flooring Products

Moldings, Wood (See Millwork & Moldings, Wood)

Mortar Boxes Adams Co Columbia Brick Works Donley Brothers Co General Engines Co Inc Goldblatt Tool Co. Jackson Mfg Co Kewanee Mfg Co Newark Ladder & Bracket Co Inc Vestal Mfg Co Wood Shovel & Tool Co

Nailing Machines Auto-Nailer Co Fastener Corp Gang Nail Sales Co Inc Independent Nail & Packing Co Morgan Machine Co Power Line Sales Inc Powerpall Co. Safety Nail Driver Corp Spotnails Inc

Nails, Aluminum Alside Inc Aluminum Co of America Chase Brass & Copper Inc Dipcraft Mfg Co Hassall John Inc Kaiser Aluminum & Chemical Corp Kaiser Aluminum & Chemical Sales Inc Lifetime Industries Inc. Lyf-Alum Inc Macklanburg-Duncan Co Nichols Wire & Aluminum Co Power Line Sales Inc Powernail Co Quaker State Metals Co Reynolds Aluminum Supply Co Reynolds Metals Co

Nails, Colored
American Nail & Wire Div US Steel Corp Angell Nail & Chaplet Co Hillwood Mfg Co Maze W H Co Mid-States Steel & Wire Co Reynolds Aluminum Supply Co Ruberoid Co

Nails, Common Amer Steel & Wire Div US Steel Corp Angell Nail & Chaplet Co Bethlehem Steel Co Chase Brass & Copper Inc Colorado Fuel & Iron Corp Columbia Geneva Steel Div US Steel Continental Steel Corp. Jones & Laughlin Steel Corp Keystone Steel & Wire Co Maze W H Co Mid-States Steel & Wire Co Morgan-Wightman Co Northwestern Steel & Wire Co Republic Steel Corp Reynolds Aluminum Supply Co Sheffield Div Armco Steel Corp Tennessee Coal & Iron Div US Steel United States Steel Corp Wickwire Bros Inc.

Nails, Ring & Screw Type Amer Steel & Wire Div US Steel Corp Angell Nail & Chaplet Co Bethlehem Steel Co Chase Brass & Copper Inc Colorado Fuel & Iron Corp Colorado Fuel & Iron Corp Continental Steel Corp Deniston Co Diperaft Mfg Co E G Building Fasteners Corp Hassall John Inc Hillwood Mfg Co Independent Nail & Packing Co Keystone Steel & Wire Co Maze W H Co Mid-States Steel & Wire Co Nichols Wire & Aluminum Co Northwestern Steel & Wire Co Reynolds Aluminum Supply Co Sheffield Div Armco Steel Corp United States Steel Corp

Nails, Self-Locking Amer Steel & Wire Div US Steel Corp Angell Nail & Chaplet Co Bethlehem Steel Co E G Building Fasteners Corp ES/Products Inc Hassall John Inc Reynolds Aluminum Supply Co United States Steel Corp

Nooks, Dining Angel Co Dormalux Co Inc.

Oak Lumber (See Lumber, Oak) Office Machines & Equipment Allied/Egry Business Systems American Photocopy Equipment Co Burroughs Corp Convmation Inc Commercial Sound Div Cutler Metal Prods Co Dick A B Co Diebold Inc Elliot Industries Inc. Indiana Cash Drawer Co International Business Machines Corp Marchant Div of Smith-Corona Minnesota Mining & Mfg Co Mosler Safe Co National Cash Register Co Remington Rand Div Sperry Rand Silver Bells Ltd

Smith-Corona Marchant Inc Standard Register Co Sunroe Corp Underwood Corp Victor Adding Machine Co

Woodall Industries Inc **Operators, Door**

(See Door Operators, Garage) Ornamental Iron

Adams Co Auer Register Co Baumgartner Gate Factory Bellkool Co Inc Blum Julius & Co Inc Cincinnati Iron Fence Co Inc Coffman R G Co Inc Erdle Perforating Co Inc Haven-Busch Co Kingsford Ornamental Building Prods Locke Mfg Co Logan Co Metal Crafters Meyers Fred L Mfg Co Michel & Pfeffer Iron Works Inc Morgan-Wightman Co



Samcoe Wm J Iron Co Stewart Iron Works Inc Tennessee Fabricating Co

ORNAMENTAL IRON

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Brown Stove Works Inc Chambers Built-Ins Inc Dixie Products Inc Frigidaire Div General Motors Corp Gaffers & Sattler Div General Electric Co Major Appliance Gray & Dudley Co Gregg & Son Inc Hardwick Stove Co Hotpoint Div Kelvinator Div American Motors Co Lindemann A J & Hoverson Co Monarch Range Co Mt Vernon Furnace & Mfg Co National Stove Co Norge Div Borg Warner Corp Oakland Foundry Co O'Keefe & Merritt Co Paxton Frank Lumber Co Phileo Corp Preway Inc Stove Works Inc Tappan Co Tennessee Stove Works Thermador Elec Mfg Co Waste King Corp Weiskittel Co Inc Welbilt Stove Co Westinghouse Electric Appliance Div Westinghouse Electric Corp

Ranges & Ovens, Gas Athens Stove Works Inc Brown Stove Works Inc Caloric Appliance Corp Chambers Built-Ins Inc Dixie Products Inc Gaffers & Sattler Div Gray & Dudley Co

Whirlpool Corp

Hardwick Stove Co Magic Chef Miami General Air Conditioning Div Monarch Range Co Mt Vernon Furnace & Mfg Co National Stove Co Norge Div Borg-Warner Corp Oakland Foundry Co O'Keefe & Merritt Co Paxton Frank Lumber Co Preway Inc Roper Geo D Corp Stove Works Inc Suburban Propane Gas Corp Tappan Co Tennessee Stove Works Waste King Corp Wedgwood-Holly Appliance Co Weiskittel Co Inc Welbilt Stove Co Whirlpool Corp

Receptors, Shower Stall (See Shower Receptors) **Redwood Lumber** (See Lumber, Redwood)

Refrigerators, Built-In Admiral Corp Athens Stove Works Inc Chambers Built-Ins Inc Douglas Crestlyn International Inc Dwyer Products Corp Gray & Dudley Co Kelvinator Div American Motors Co Lindemann A J & Hoverson Co Morphy-Richards Inc Phileo Corp Preway Inc Quicfrez Inc Revco Inc Sub Zero Freezer Co Inc Thermador Elec Mfg Co Westinghouse Electric Appliance Div Westinghouse Electric Corp

Refrigerators & Freezers, Electric

Acme National Refrigeration Co Inc Admiral Corp Amana Refrigeration Inc Barkow Aug G Mfg Co Inc Chambers Built-Ins Inc Frigidaire Div General Motors Corp General Electric Co Major Appliance Gibson Refrigerator Sales Corp Gray & Dudley Co Hotpoint Div Insta-Matic Heater Co Kelvinator Div American Motors Co King Refrigerator Corp Manitowoc Equipment Works Norge Div Borg-Warner Corp Quicfrez Inc Revco Inc Sub Zero Freezer Co Inc Tappan Co Thermador Elec Mfg Co Victor Prods Corp Westinghouse Electric Appliance Div Westinghouse Electric Corp Whirlpool Corp

Refrigerators & Freezers, Gas Acme National Refrigeration Co Inc Insta-Matic Heater Co Preway Inc Whirlpool Corp

Registers, Heating & Ventilating A & A Register Co Aluminum Co of America Auer Register Co Bennett-Ireland Inc Coleman Co Inc Gerwin Industries Inc Hart & Cooley Mfg Co International Oil Burner Co Leigh Building Products Div Lennox Industries Inc. Lima Register Co

Majestic Co Inc Parker S Hardware Mfg Corp Titus Mfg Corp United States Register Co Waterloo Register Co Inc York Corp Sub Borg-Warner

Reinforcing Bars & Mesh (See also Steel, Masonry Wall

Reinforcing)
Amer Steel & Wire Div US Steel Corp Bethlehem Steel Co Ceco Steel Prods Corp Cleveland Steel Specialty Co Colorado Fuel & Iron Corp Continental Steel Corp Dayton Sure-Grip & Shore Co Forbes Steel Corp Jones & Laughlin Steel Corp Kaiser Aluminum & Chemical Sales Inc Laclede Steel Co Northwestern Steel & Wire Co Republic Steel Corp Truscon Div Ryerson Joseph T & Son Sheffield Steel Co United States Steel Corp Youngstown Sheet & Tube Co

Roof Decks (See Decking) Roofing Shingles (See Shingles)

Roofing, Aggregates For Kaiser Aluminum & Chemical Corp Willingham-Little Stone Div

Roofing, Asbestos Cement Abesto Mfg Co Allied Chemical Corp Barrett Div Carey Philip Mfg Co Ceresit Corp Certain-Teed Sales Corp Fiberboard Paper Prods Inc Flintkote Co Johns-Manville Corp Keasbey & Mattison Co Lastik Paint Inc. Logan-Long Co. Monroe Co Inc National Gypsum Co Pecora Inc Reynolds Aluminum Supply Co Ruberold Co Rutland Fire Clay Co Sonneborn Chemical & Refining Corp Sullivan Co Supradur Corp of N Y

Roofing, Asphalt
Allied Chemical Corp Barrett Div
American Bitumuls & Asphalt Co Bird & Son Inc Borden Chemical Co Div Borden Co Carey Philip Mfg Co Celotex Corp Certain-Teed Products Corp Fiberboard Paper Prods Inc Flintkote Co Fry Lloyd A Roofing Co Globe Roofing Products Co Inc Horn A C Companies Johns-Manville Corp Keasbey & Mattison Co Lastik Paint Inc Lehon Co Logan-Long Co Monroe Co Inc National Mfg Corp Owens-Corning Fiberglas Corp Plextone Corp of America Protective Papers Inc Reynolds Aluminum Supply Co Ruberold Co Sonneborn Chemical & Refining Corp United States Gypsum Co

Roofing, Copper Anaconda American Brass Co Bridgeport Brass Co Chase Brass & Copper Inc Hussey C G & Co Revere Copper & Brass Inc Reynolds Aluminum Supply Co

Roofing Shingles (See Shingles & Shakes) Roofing & Siding, Aluminum (See also Siding, Aluminum Clapboard) Alside Inc

Alside Inc
Aluminum Co of America
Edco Products Inc
Hess Mfg Inc
Kaiser Aluminum & Chemical Corp
Kaiser Aluminum & Chemical Sales Inc
Lyf-Alum Inc
Mastic Corp
Monroe Co Inc
Nichols Wire & Aluminum Co
Quaker State Metals Co
Revere Copper & Brass Inc
Reynolds Aluminum Supply Co
Reynolds Metals Co
Ryerson Joseph T & Son
U S Aluminum Siding Corp
Winter Seal Corp

Roofing, Steel
Bethlehem Steel Co
Continental Steel Corp
Granite City Steel Co
Inland Steel Products Co
Macomber Inc
Plasteel Products Corp
Reeves Steel & Mfg Co Div
Republic Steel Corp Truscen Div
Reynolds Aluminum Supply Co
Ryerson Joseph T & Son
United States Steel Corp
Woodside Engineering Co

Roofing, Terne Metal Ceco Steel Prods Corp Follansbee Steel Corp Inland Steel Products Co Klauer Mfg Co Reeves Steel & Mfg Co Div Reynolds Aluminum Supply Co United States Steel Corp

Roofing, Tile (See Tile, Roofing) Room Dividers (See Partitions)

Routers & Shapers, Electric
Beach Mfg Co
Black & Decker Mfg Co
Black & Decker Mfg Co
Black & Decker Mfg Co
Consolidated Mach & Supply Co Ltd
Duro Metal Products Co
Ekstrom Carlson & Co
Oliver Machinery Co
Porter-Cable Machinery Co
Rockwell Mfg Delta Power Tool Div
Skil Corp
Stanley Electric Tools
Wallace J D Co Inc
Whitney Baxter D & Son Inc
Yates-American Machine Co

Rubber Flooring (See Tile, Rubber) Safes, Wall, Built-in Diebold Inc Mellink Steel Safe Co

WALL VAULTS ®
West installed behind mirror

MEILINK STEEL SAFE CRMPANY, Talada G. Shin

Mosler Safe Co Remington Rand Div Sperry Rand

Salamanders (See Heaters, Contractors, Portable) Sanders Albertsen & Co Inc American Floor Machine Co Atlas Floor Surfacing Machinery Cerp Atlas Press Co. Beach Mfg Co Behr-Manning Co Black & Decker Mfg Co Blum Julius & Co Inc Boice Crane Co Burgess Vibrocrafters Inc Carborundum Co Chicago Pneumatic Tool Co Clarke Floor Machine Co Div Cummins Portable Tools Div Dayton Electric Mfg Co DeWalt Inc Dormeyer Corp Duro Metal Products Co Ekstrom Carlson & Co Grinding & Polishing Mach Corp Holt Mfg Co Mattison Machine Works Merit Products Inc Millers Falls Co. Milwaukee Elec Tool Corp National-Detroit Inc Oliver Machinery Co Peninsula Tool Co Inc Portable Electric Tools Inc Porter-Cable Machine Co Remington Arms Co Inc Rockwell Mfg Delta Power Tool Div Skil Corp Speedway Mfg Div Thor Power Tool Co Stanley Electric Tools Thor Power Tool Co Wen Products Inc Yetes-American Machine Co

Sash
(See Windows & Doors,
Combination)
Sash Balances
(See also Hardware,

Window) Allmetal Weatherstrip Co Caldwell Mfg Co Central Metal Strip Co Dennis W J & Co Farley & Loetscher Mfg Co Goshen Sash & Door Co Grand Rapids Hardware Co Ideal Brass Works Inc. Industrial Iron Works Lock-Joint Window Co Macklanburg-Duncan Co Master Metal Strip Service Inc Precision Weatherstrip Co Pullman Mfg Corp Sager Weatherstrip & Caulking Turner & Seymour Mfg Co Unique Window Balance Corp Weatherproof Products Corp Zegers Inc.

Sawing Equipment Cenatron Industries Foley Mfg Co

Saws, Band (See Tools, Carpenter, Hand)

Saws, Chain, Tree Felling
Atkins Saw Div Borg-Warner
Dayton Electric Mfg Co
General Engines Co Inc
Homelite Div Textron Inc
Lancaster Pump & Mfg Co Inc
Milwaukee Elec Tool Corp
Morgan-Wightman Co
Porter-Cable Machine Co
Remington Arms Co Inc

Saws, Circular
Albertson & Company Inc
American Woodworking Machinery Co
Atkins Saw Div Borg-Warner
Atlas Press Co
Beach Mfg Co
Belsaw Machinery Co
Black & Decker Mfg Co Inc

Blum Julius & Co Inc. Boice Crane Co Comet Mfg Div Siegler Corp Consolidated Mach & Supply Co Ltd Dayton Electric Mfg Co DeWalt Inc. Disston Div H K Porter Co Inc. Dormeyer Corp Duro Metal Products Co Ekstrom Carlson & Co General Hardware Mfg Co Inc Heinemann Saw Corp. Jones Superior Machine Co Huther Brothers Saw Mfg Co Inc Lippmann Engineering Works Inc Master Woodworker Mfg Co Inc. Mattison Machine Works Milwaukee Elec Tool Corp Oliver Machinery Co Portable Electric Tools Inc Porter-Cable Machine Co Remington Arms Co Inc Rockwell Mfg Delta Power Tool Div Shopmaster Div Energy Mfg Co Speedway Mfg Div Thor Power Tool Co Stanley Electric Tools Victor Inc Wallace J D Co Inc Whitney Baxter D & Son Inc Yates-American Machine Co

Saws, Concrete (See Concrete Sawing Equipment)

Saws, Files For (See Files, Saw & Circular)

Saws, Gasoline
C H & E Mig Co
Dayton Electric Mig Co
Jones Superior Machine Co
King Mig Co
Lancaster Pump & Mig Co Inc
Master Woodworker Mig Co Inc
Remington Arms Co Inc
Thomas Industries Inc
Wacowall Div Waco-Porter Corp

Saws, Hack (See Tools, Carpenter, Hand) Saws, Masonry (See Concrete Sawing Equipment; also Cutters)

Saws, Portable Electric Albertson & Company Inc American Floor Machine Co Black & Decker Mfg Co Blum Julius & Co Inc. Burgess Vibrocrafters Inc Chicago Pneumatic Tool Co **Cummins Portable Tools Div** Dalton Mfg Co Dayton Electric Mfg Co Disston Div H K Porter Co Forsberg Mfg Co Heinemann Saw Corp Hoed Bros Kett Tool Co Krieg Victor J Inc Master Woodworker Mfg Co Inc Millers Falls Co Milwaukee Elec Tool Corp Portable Electric Tools Inc. Porter-Cable Machine Co Producers & Distributors Inc Remington Arms Co Inc. Ryerson Joseph T & Son Skil Corp Speedway Mfg Div Thor Power Tool Co Stanley Electric Tools Thor Power Tool Co Wells Mfg Corp Wen Products Inc

Saws, Radial
American Woodworking Machinery Co
Comet Mig Div Siegler Corp
Consolidated Mach & Supply Co Ltd
DeWalt Inc
Master Woodworker Mig Co Inc

Portable Electric Tools Inc Rockwell Mfg Delta Power Tool Div Wallace J D Co Inc

Saws, Sabre
American Floor Machine Co
Cummins Fortable Tools Div
Dalton Mig Co
Disston Div H K Porter Co Inc
Dormeyer Corp
Hood Bros
Miller George E Lumber Co
Skil Corp
Peninsula Tool Co Inc
Portable Electric Tools Inc
Porter-Cable Machine Co
Rockwell Mig Delta Fower Tool Div
Stanley Electric Tools

Scaffolding & Shoring (See also Posts, Adjustable) Ajax Building Bracket Co

Amidon Engineering Co Ballymore Co Beaver Advance Corp Berg John Mfg Co Bil-Jax Inc. Conver Steel & Wire Co Dayton Sure-Grip & Shore Co Du-All Scaffold Bracket Co **Duo-Safety Ladder Corp** Farwell Metal Fabricating Goldblatt Tool Co Goshen Churn & Ladder Inc Hico Corp of America Hoitsma Adjustable Scaffold Bracket Co Holland Ladder & Mfg Co Louisville Ladder Co Marvel Equipment Corp Mauk Seattle Lumber Co Michigan Ladder Co Morgen Mfg Co Moulton Ladder Mfg Co Newark Ladder & Bracket Co Inc Olympic Foundry Co Patent Scaffolding Co Pittsburgh Plate Glass Co Reiman & Georger Inc Rich Howard B Inc Richbilt Mfg Co Safway Stel Products Inc Steel Scaffolding Co Superior Scaffold Co Symons Clamp & Mfg Co Tilley John S Ladders Co Inc **Tubular Structures Corp of America** Wacowall Div Waco-Porter Corp Wagner Mfg Co Werner R D Co Inc

SCR Brick (See Brick, SCR) Screeding Machines, Concrete (See Concrete Finishing Machines)

Screen Hardware (See Hardware, Screen & Storm Sash)

Screening, Louver Type
Alsco Inc
Kaiser Aluminum & Chemical Corp
Kaiser Aluminum & Chemical Sales Inc

Tyler Arthur F Co
Screening, Metal Wire
Alabama Wire Co Inc
Aluminum Co of America
American Steel & Wire Div
Chamberlin Co of America
Chase Brass & Copper Inc
Colorado Fuel & Iron Corp
Cyclone Fence Dept Amer Steel & Wire
DeVac Inc
Gilbert & Bennett Mfg Co
Hanover Wire Cloth Div
Heilig Bros Co
Hettrick W E & Son Co
Ida Products Co
Keystone-Seneca Wire Cloth Co

Late Preds Co

New York Wire Cloth Co Inc

North East Metal Products Corp Peerless Mig Co Inc Reynolds Aluminum Supply Co Royal Jalousie Co Seneca Wire & Mig Co United States Steel Corp Wickwire Brus Inc

Screening, Plastic
Chicopee Milis Inc Lumite Div
DeVac Inc
Evergreen States Forest Products
Firestone Synthetic Fibers Co
Graham John H & Co Inc
Hettrick W E & Son Co
New York Wire Cloth Co Inc
Owens-Corning Fiberglas Corp
Peerless Mfg Co Inc
Plastic Woven Prods
Reynolds Aluminum Supply Co
Royal Jalousie Co

Screens, Tension
Columbia Mills Inc
Durall Products Co
Goshen Sash & Door Co
Keystone-Seneca Wire Cloth Co
Lockhart Mig Corp
Loxcreen Co Inc
Reflectal Corp Sub Borg Warner
Reynolds Aluminum Supply Co
Rudiger-Lang Co
Seneca Wire & Mig Co
Southern Sash Sales & Supply Co
Spokane Sash & Door Co

Screens, Windows (See Windows & Doors, Combination) Screwdrivers

(See Tools, Carpenter, Hand)
Screwdrivers, Portable, Electric
Black & Decker Mig Co
Blum Julius & Co Inc
Chicago Pneumatic Tool Co
Ingersoil-Rand Co
Millers Falls Co
Milwaukee Elec Tool Corp
Porter-Cable Machine Co
Reynolds Aluminum Supply Co
Skil Corp
Speedway Mig Div Thor Power Tool Co
Stanley Electric Tools

Supreme Products Corp

Thor Power Tool Co

Screws Aluminum Co of America Arro Expansion Bolt Co Blum Julius & Co Inc Gensco Tools Hercules Fastener Co Holub Industries Inc Independent Nail & Packing Co. Lamson & Sessions Co Leigh Building Products Div Macklanburg-Duncan Co Medalist Hardware Div National Lead Co Paine Co Parker S Hardware Mfg Corp Ramset Fastening System Republic Steel Corp. Screw & Bolt Corp of America Southern Screw Co Stanscrew Fasteners Div Standard Screw Ca

Sealers, Concrete (See Concrete Hardeners & Sealers) Sealers & Finishes (See Finishes & Sealers)

Septic Tanks, Clay American Vitrified Prods Co Cannelton Sewer Pipe Co Clay City Pipe Co Interstate Brick Co Kaul Clay Co Logan Clay Prods Co Natco Corp Owensboro Sewer Pipe Co Robinson Clay Product Co Stillwater Clay Products Co Streator Drain Tile Co Superior Clay Corp Yeomans Bros Co

Septic Tanks, Steel
Kaustine Furnace & Tank Co
Koven L O & Bro Inc
Shadyside Foundry
Vega Industries Inc
Yeomans Bros Co

Sewage Disposal Systems (See also Pumps, Sump; Septic Tanks)

Chicago Pump Co
Continental Pump Co
Dorr-Oliver Inc
Eimeo Corp
Johns-Manville Corp
McPherson Inc
Pomona Terra-Cotta Co
Smith & Loveless Div Union Tank
Straitsville Brick Co
Texas Vitrified Pipe Co
Yeomans Bros Co

Sewer Pipe (See Pipe, Sewer) Shakes, Cedar, Red (See also Shingles & Shakes) Axford Prairie Skae Co

Axford Prairie Skae Co Duronso Bros Shake Mill Longview Shake Co Parker & Son Shake Mill Shake-A-Ply Co



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Shapers (See Routers & Shapers) Sheathing, Board, Fiber (See Wallboard & Sheathing, Fiber)

Sheathing, Gypsum (See also Wallboard,

Gypsum)
Allied Chemical Corp Barrett Div
Bestwall Gypsum Co
Fiberboard Paper Prods Inc
Flintkote Co
Grand Rapids Gypsum Co
Kaiser Gypsum Co Inc
National Gypsum Co
Reynolds Aluminum Supply Co
Ruberold Co
United States Gypsum Co

Sheathing, Insulating Board (See also Insulation Board, Fiber)

Fiber) Abitibi Corporation Air O-Cel Allied Chemical Corp Barrett Div Alsco Inc American Sisalkraft Corp Armstrong Cork Co Bird & Son Inc Bradley Southern Div Potlatch Forests Carey Philip Mfg Co Celotex Corp Certain-Teed Products Corp Edeo Products Inc Flintkote Co. Insulite Div Minnesota & Ontario Paper Co Johns-Manville Corp Kaiser Gypsum Co Inc Keasbey & Mattison Co Kochton Plywood & Veneer Co Inc National Gypsum Co Paxton Frank Lumber Co Simpson Timber Co

United States Gypsum Co United States Plywood Corp Wood Conversion Co

Sheathing Paper (See Paper, Building) Sheathing Wood (See Lumber; also Plywood) Sheets, Aluminum Corrugated (See Roofing & Siding, Aluminum)

Sheets, Iron & Steel, Galvanized (See Steel, Structural)

Shelving, Cabinets
Alan Wood Steel Co Penco Div
Amerock Corp



Bradley Southern Div Frick-Gallagher Mfg Co Inc

Shingles, Asbestos Cement (See Roofing, Asbestos Cement) Shingles, Asphalt

(See Roofing, Asphalt)
Forks Shingles Co Inc
Humptulips Shingle Co
Huntington Shingle Co
Lake Lytle Shingle Co

Shingles & Shakes, Cedar, Red Aloha Lumber Corp American Dua-Lap Div of Triton Co Bestwood Cedar Shingle Co Ltd Canadian Forest Prods Ltd Capilano Timber Co Ltd Cedar Supply Co Cedarwood Timber Co Creo-Dipt Co Inc Georgia Pacific Corp Harris L C Cedar Ltd Hines Edward Lumber Co Hurn Shingle Co International Paper Co Long-Bell Div Jackson Shake Co Johnson & Johnson Shake Co. Mackie Mill Co Marona Mill Co Mauk Seattle Lumber Co Mt Pleasant Shingle Co New London Shake Co Northwest Shake Distributor Nova Sales Co Robinson Plywood & Timber Co Seattle Cedar Lumber Mfg Co Shake-A-Ply Co Shakertown Corp

White Creek Shingle Co
Shoring, Horizontal
(See also Scaffolding &
Shoring)
Acrow Corp of America

Weyerhaeuser Co Lumber & Plywood

Smith M R Shingle Co Sound Sidewall Shake Co

Summit Sales Co

Weatherbest Corp

U S Mineral Wool Co

Super Mill Co

Chain Belt Co.

Hice Corp of America
Jones & Laughlin Steel Corp
Spanall of the Americas Inc
Tubular Structures Corp of America

Shovels (See Crones & Shovels) Shower Doors (See Doors, Shower & Bathtub)

Shower Receptors
(See also Plumbing Fixtures)
Cleveland Wash Tray Mig Co
Cutier Metal Prods Co
Fiat Metal Mig Co
Lehman Specialty Co
Milwaukee Stamping Co Bathe-Rite Div
Norman W F Sheet Metal Mig Co
Pacific Pre-Cast Products Inc
Rehco Corp
Tiletone Co
Weis Henry Mig Co

Shower Stalls
(See also Plumbing fixtures)
Efron Theodore Mfg Co
General Metaleraft Inc Olympia Div
Gerber Plumbing Fixtures Corp
Lehman Specialty Co
Norman W F Sheet Metal Mfg Co
Northwest Metal Products Inc
Reheo Corp
Speakman Co
Standard Steel Cabinet Co
Tiletone Co
Weis Henry Mfg Co

Shutters, Metal Acme Engineering & Mig Corp Alseo Inc Alside Inc American Coolair Corp Coffman R G Co Inc Dayton Electric Mfg Co. Edco Products Inc Emerson-Pryne Co Gordon Mfg Co H-C Products Co Jones Shutter Products Kingsford Ornamental Building Prods Leigh Building Products Div Louver Mfg & Supply Lvf-Alum Inc Morgan-Wightman Co Philadelphia Screen Mfg Co Regal Products Corp Reynolds Aluminum Supply Co Rich Phil Fan Mfg Co Inc Seaman-Andwall Corp Victor Tool & Machine Corp Winter Seal Corp

Shutters, Wood Caradeo Inc Cole Mfg Co Curtis Companies Inc Farley & Loetscher Mfg Co Goshen Sash & Door Co Gregg & Son Inc **Heinley Mastercraft Products** Ideal Co Mfg Div Wm Cameron & Co Morgan Company Morgan-Wightman Co Rich Phil Fan Mfg Co Inc Rock Island Millwork Co Factory Div Rockwell of Randolph Inc Schumacher F E Co Southern Mill & Mfg Co Suncraft Inc Tyler Arthur F Co Woodco Corp

(See Lumber)
Siding, Aluminum Clapboard
Allied Chemical Corp Barrett Div
Alsco Inc
Alside Inc
Bird & Son Inc
Brixite Mfg Co Inc

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Siding, Asbestos Cement Allied Chemical Corp Barrett Div Carey Philip Mfg Co Certain-Teed Products Corp Diperaft Mfg Co Fiberboard Paper Prods Inc Flintkote Co Fry Lloyd A Roofing Co Johns-Manville Corp Keasbey & Mattison Co Lehon Co Logan-Long Co National Gypsum Co Re-Nu-It Corp Reynolds Aluminum Supply Co Bubernid Co. Supradur Corp of N Y United States Gypsum Co

Siding, Hardboard

(See also Hardboard) Abitibi Corp Armstrong Cork Co Celotex Corp Diamond Lumber Co Evans Products Co Forest Fiber Products Co Georgia Pacific Corp Hines Edward Lumber Co Insulite Div Minn & Ontario Paper Co Johns-Manville Corp Masonite Corp National Gypsum Co Paxton Frank Lumber Co Reynolds Aluminum Supply Co Superwood Corp United States Plywood Corp Weyerhaeuser Co Silvatek Div

Siding, Plywood (See also Plywood, Douglas

Cascades Plywood Corp Diamond Lumber Co Georgia Pacific Corp Jones Veneer & Plywood Co Kochton Plywood & Veneer Co Inc Midwest Plywood Co Paxton Frank Lumber Co Reynolds Aluminum Supply Co. Rosboro Lumber Co United States Plywood Corp Youngblood Lumber Co

Siding, Steel Bethlehem Steel Co Continental Steel Corp Granite City Steel Co Reeves Steel & Mfg Co Div Republic Steel Corp Truscon Div Tennison Bros Inc. United States Steel Corp Woodside Engineering Co

Siding, Underliner, Insulating (See Sheathing, Insulating)

Siding, Wood

(See also Lumber; Shingles) Aloha Lumber Corp Arcata Redwood Co Arrow Tank Co Inc Bradley Southern Div Potlatch Forests Capilano Timer Co Ltd Diamond Lumber Co Dierks Forests Inc Georgia Pacific Corp Goodman Lumber Div Calumet & Hecla Hardwood Corp of America Homasote Co Insul-Wool Insulation Corp Jones Veneer & Plywood Co Mauk Seattle Lumber Co McMinnville Mfg Co Ozan Lumber Co Pacific Lumber Co Paxton Frank Lumber Co Pope & Talbot Inc Rosboro Lumber Co Seattle Cedar Lumber Mfg Co



Summit Sales Co. Union Lumber Co Upson Co Weyerhaeuser Co Lumber & Plywood Willits Redwood Products Co

Sinks, Metal or Stainless Steel Active Tool & Manufacturing Co Aeronca Mfg Co Metal Products Div American-Standard Plumbing & Heating Div Boro Wood Prods Co Inc Caloric Appliance Corp Carrollton Mfg Co Copymation Inc Ductless Hood Co Inc Ekco Prods Co Eljer Co Elkay Mfg Co Farwell Metal Fabricating Geneva Modern Kitchens Legion Stainless Sink Corp Lyon Inc Paxton Frank Lumber Co Tennessee Stove Works Texboro Cabinet Corp Universal-Rundle Corp Vance Industries Inc.

Sinks, Porcelain Enamel (See Plumbing Fixtures) Skylights
Allied Chemical Corp Barrett Div Chemold Co Consolidated General Prod Inc Diperaft Mfg Co Johns-Manville Corp Klise Mfg Co Pennsylvania Wire Glass Co Plasteco Inc Rohm & Haas Co Structoglas Inc Tiffany Mfg Co Inc Wasco Products Inc

Slate Fond du Lac Stone Co Inc North Bangor Slate Co Western States Stone Co

Sliding Doors, Windows (See Doors, Sliding; also Windows, Horizontal) Spray Guns, Paint (See Paint Spray Guns) Stains (See Paints, Interior &

Exterior, Oil)

Stairs, Nosing For American Abrasive Metals Co Angelina Hardwood Sales Co B & T Metals Co Blum Julius & Co Inc. Bradley Southern Div Central Metal Strip Co Crown Rubber Co Francis H A & Co Inc Harris Hardwood Co Inc Harris Mfg Co J & B Plastics Co Inc Mackianburg-Duncan Co. Metal Crafters Moore Goodloe E Inc Paxton Frank Lumber Co Southern Mill & Mfg Co Wooster Products Inc

Stairs, Steel, Cellar (See Doors, Cellar, Bulkhead)

Stairs, Treads For American Mat Corp Angelina Hardwood Sales Co Blum Julius & Co Inc Bradley Southern Div Carborundum Co Cloud Oak Flooring Co Crown Rubber Co Dravo Corp Farley & Loetscher Mfg Co Goodrich B F Co Flooring Products Harris Hardwood Co Inc Hardwood Corp of America Harris Mfg Co Jones & Laughlin Steel Corp Musson R C Rubber Co Norton Co. Paxton Frank Lumber Co Robbins Floor Products Inc Wooster Products Inc

Stairways, Disappearing

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Bessler Disappearing Stairway Craftwood Products EZ-Way Sales Inc Fabricon Co Farley & Loetscher Mfg Co Goshen Sash & Door Co Newark Ladder & Bracket Co Inc Precision Parts Corp Reynolds Aluminum Supply Co Richbilt Mfg Co

Tennessee Fabricating Wel-Bilt Products Co

Stairways, Steel Metal Crafters Michel & Pfeffer Iron W

United States Steel Corp

Michel & Pfeffer Iron Works Inc Tubular Structures Corp of America United States Steel Corp Valley Metal Products

Valley Metal Products

Staplers, Tackers & Staples
Arrow Fastener Co Inc
Automation Fastening Co Inc
Bostitch
Copperweld Steel Co Wire & Cable Div
Everwarm Inc
Fastener Corp
Hillwood Mfg Co
Markwell Mfg Co Inc
Mid-States Steel & Wire Co
Power Line Sales Inc
Signode Steel Strapping Co
Spotnalls Inc

Steel, Masonry Wall Reinforcing (See also Reinforcing Bars & Mesh)

Mesh)
A A Wire Products Co
Carter-Waters Corp
Cleveland Steel Specialty Co
Conver Steel & Wire Co
Dayton Sure-Grip & Shore Co
Dur O Wal Div Cedar Rapids Block Co
Keystone Steel & Wire Co
Laclede Steel Co
Lenawee Peerless Inc
Robertson Steel & Iron Co
United States Steel Corp

Steel, Structural
(See also Studdings &

Channels, Steel) Adjusta Post Mfg Co Baumgartner Gate Factory Bethlehem Steel Co Butler Mfg Co Byers A M Co. Colorado Fuel & Iron Corp Columbia Geneva Steel Div US Steel Copco Steel & Engineering Co Cuckler Steel Span Co. Flash Bridge Co Haven-Busch Co Inland Steel Co. International Steel Co. Jones & Laughlin Steel Corp Kaiser Steel Corp Kees F D Mfg Co Laclede Steel Co Macomber Inc Mahon R C Co Morgan-Wightman Co Northwestern Steel & Wire Co Penn Metal Co Inc Republic Steel Corp Ryerson Joseph T & Son Sheffield Div Armco Steel Corp Stran-Steel Corp Div Nati Steel Corp Syre Steel Co Taber Bushnell Inc Tennessee Coal & Iron Div US Steel Timber Engineering Co



TIMBER ENGINEERING COMPANY Storm Windows
1319 18th St., N.W., Washington 6, D. C. (See Window
Union Asbestos & Rubber Co
Combination)

Union Asbestos & Rubber Co Unistrut Prods Co United States Steel Corp Youngstown Sheet & Tube Co

Stone, Crab Orchard Briar Hill Stone Co Crab Orchard Stone Co Inc Shakertown Corp Briar Hill GOLDEN TONE SANDSTONE

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THE BRIAR HILL STONE COMPANY
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Tennessee Stone Co Inc

Stone, Granite
North Carolina Granite Corp
Tamms Industries Co
Vermont Marble Co

Stone, Limestone Bloomington Limestone Corp

Ashtone

INDIANA LIMESTONE VENEER
for Distinctive Homes

THE BLOOMINGTON LIMESTONE CORP. BLOOMINGTON, INDIANA

Corson G & W H Inc
Fond Du Lac Stone Co Inc
Georgia Marble Co
Indiana Limestone Co Inc
Longview Lime Corp
San-Tex Stone Quarry Inc
Tiger Brands Inc Sub of Basic Inc
Woolery Stone Co Inc

Stone, Marble Carthage Marble Corp Georgia Marble Co Stone Products Co Tamms Industries Co Vermont Marble Co

Stone Patching Compounds (See Paints & Coatings, (Concrete)

Stone, Palos Verdes Palos Verdes Stone Dept Stone, Slate (See Slate) Stone, Veneer, Synthetic Alsco Inc

Featherock Inc
General Concrete Products Inc
Perma-Stone Co
Stone Products Co

Store Fronts
American Art Metals Co
Davidson Enamel Products Ine
Hastings Aluminum Products Ine
Ingram-Richardson Mfg Co
Kawneer Co
Libbey-Owens-Ford Glass Co
Lustrik Inc
Marmet Corp
Metal Trims Inc
Pittsburgh Plate Glass Co
Reynolds Aluminum Supply Co
Toledo Plate & Window Glass Co
United States Plywood Corp
Wolverine Porcelain Enameling Co

Storm Windows
(See Windows & Doors,
Combination)
Structural Steel
(See Steel, Structural)

Stucco, Pre-Mixed Coddington E D Mfg Co Colorcrete Industries Inc Penn Crete Prods Co United States Gypsum Co Studding & Channels, Steel
Alabama Metal Lath Co Inc
Bostwick Steel Lath Co
Casings Inc & Drywall Trim Div.
Inland Steel Products Co
National Gypsum Co
Penn Metal Co Inc
Republic Steel Corp Truscon Div
Woodside Engineering Co

Sump Pumps (See Pumps, Sump) Surveying Instruments (See Instruments, Surveying) Swimming Pool Equipment

Amcrete Corp Birdair Structures Inc Campbell Mfg Co Inc Capri Mfg Inc Cascade Pools Corp Chester Products Inc City Chemical Corp Colonial Pool Co Inc Continental Pump Co Dayton Electric Mfg Co Epco Swimming Pool Co Goodrich B F Industrial Products Co Hoosier Tarpaulin & Canvas Goods Co Josam Mfg Co King Mfg Co Lancaster Pump & Mfg Co Inc Landon Inc Marlin Pool Equipment Co Modern Swimming Pool Co Inc National Pool Equipment Co Paddock of California Panelfab Products Inc Permutit Co Div Pfaudler Permutit Inc Plastimayd Corp Poolquip Mfg Inc Romar Filter Corp Simplex Forms System Inc Stonco Electric Prods Co Swim Queen Pool Co Wahlstrom Bron Weissmuller Johnny Cinema Pools

Swimming Pools
Amcrete Corp
Arrow Tank Co Inc
Award Pools
Capri Mfg Inc
Cascade Pools Corp
Chester Products Inc
Colonial Pool Co Inc
Epco Swimming Pool Co
Koven L O & Bro Inc
National Pool Equipment Co
Paddock of California
Plastimayd Corp
Swim Queen Pool Co
Universal Fiberglass Industries
Wahlstrom Bros

Tackers (See Staplers, Tackers & Staples)

Tampers, Powered
Barco Mfg Co
Chicago Pneumatic Tool Co
Cleveland Trencher Co
Equipment Div Young Spring & Wire
Gardner-Denver Co
Henry Mfg Co Inc
Ingersoll-Rand Co
Jackson Vibrators Inc
Jay Co Div Leukart Mach Co Inc
Kelley Machine Div Wiesner-Rapp Co Inc
Le Roi Div Westinghouse Air Brake Co
Muller Machinery Co Inc
Schield Bantam Co
Stow Mfg Co
Thor Power Tool Co
Vibro Plus Prods Inc
Whiteman Mfg Co

Tanks, Septic, Clay (See Septic Tanks, Clay) Tanks, Septic, Steel (See Septic Tanks, Steel) Tapes Behr-Manning Co Durkee-Atwood Co Evans Rule Co Hood Bros Gering Plastics Div Johns-Manville Corp **Kordite** Co Lufkin Rule Co National Gypsum Co Pittsburgh Plate Glass Co Reeves Brothers Inc. Roe Justus & Sons Stanley Tools Starrett L S Co Wilson Grant Inc.

Taping Machines, Drywall Goldblatt Tool Co

Tarpaulins
Arvey Corp
Berg F O Co
Delta Co
Fulton Cotton Mills
Gering Plastics Div of Studebaker-Packard
Corp
Goodrich B F Industrial Products Co
Goss J C Co
Hoosier Tarpaulin & Canvas Goods Co
Industrial Canvas Prods Corp
Koordite Co
Inc Durethene Plant
Kordite Co
Newark Ladder & Bracket Co Inc
Richkraft Co
Tiger Brands Inc Sub of Basic Inc
Tucker Duck & Rubber Co
Visking Co

Television Antennas (See Antennas, TV) Tension Screens (See Screens, Tension)

Termite Shields & Controls
Allied Chemical Corp Barrett Div
Bird & Son Inc
Cabot Samuel Inc
Cre-O-Tox Chemical Co
Dow Chemical Co
Inland Steel Products Co
Monsanto Chemical Co Organic Chem Div
National Mfg Corp
Phelan-Faust Paint Mfg Co
Shell Chemical Co
Sullivan Co
Velsicol Chemical Corp
Wood Treating Chemicals Co

Thresholds

Adams Co Allmetal Weatherstrip Co Aluminum Co of America Aluminum Industries Anaconda American Brass Co Angelina Hardwood Sales Co B & T Metals Co Blum Julius & Co Inc Bradley Southern Div Potlatch Forests Ceco Steel Prods Corp Central Metal Strip Co Chamberlin Co of America Chase Brass & Copper Inc Chicago Metal Strip Co Curtis Companies Inc Dennis W J & Co Donley Brothers Co Duraflex Co. Francis H A & Co Inc Goodrich B F Co Flooring Products H-C Products Co Harris Mfg Co Kaiser Aluminum & Chemical Sales Inc Kawneer Co Macklanburg-Duncan Co Master Metal Strip Service Inc. Metal Crafters Miraplas Tile Co Moloney Co Morgan-Wightman Co National Forest Prods Co National Metal Prods

National Window Corp Parker S Hardware Mfg Corp Paxton Frank Lumber Co Pemko Mfg Co Reynolds Aluminum Supply Co Reynolds Metals Co Royal Jalousie Co Safety-Flex Enclosures Div Sager Weatherstrip & Caulking Sentry Stop-A-Draft Co Southern Sash Sales & Supply Co Storm King Corp Sun Screen Products Co Superior Industries Inc Trego Industries United Industries Inc United Steel Products Co Visador Co Weatherproof Products Corp Wells Aluminum Corp Werner R D Co Inc Wooster Products Inc Youngstown Mfg Inc

Ties, Concrete Form (See Concrete Form Ties) Tile, Acoustical (See Acoustical Materials)

(See Acoustical Materials)
Tile, Asphalt, Floor
Armstrong Cork Co
Azrock Floor Prods Div Uvalde Rock
Congoleum-Nairn Inc
Flintkote Co
Forman-Ford & Co
Goodrich B F Co Flooring Products
Johns-Manville Corp
Kentile Inc
Mastic Tile Div Ruberold Co
Ruberold Co
Thomas Moulding Floor Co Inc

Tile, Ceramic, Floor & Wall American Olean Tile Co Amsterdam Corp Associated Plumbing Supply Co Inc Atco Ceramics Corp Cambridge Tile Mfg Co Columbia Brick Works Design Technics Gladding McBean & Co Hood Ceramic Corp Malvern Flue Lining Inc Marlin Pool Equipment Co Marsh Wall Products Inc Miraplas Tile Co Misceramic Tile Morton Ceramic Tile Co Mosaic Tile Co Natco Corp National Pool Equipment Co National Tile & Mfg Co Norton Co Oxford Tile & Porcelain Co Oxford Tile Co Div Pacific Tile & Porcelain Co Pomona Tile Mfg Co Selck Walter E & Co Stylon Corp Summitville Tiles Inc Three Centuries Tilemaster Corp United States Ceramic Tile Co

Tile, Cork, Floor Armstrong Cork Co Dodge Cork Co Inc Forman-Ford & Co Kentile Inc Robbins Floor Products Inc

Wenczel Tile Co

Tile, Drain
Acme Shale Brick Co Inc
Bowerston Shale Co
Builders Brick Co
Interstate Brick Co
Robinson Clay Product Co

File, Glazed
American Olean Tile Co
Amsterdam Corp
Elgin-Standard Brick Mfg Co
Illinois Brick Co

Interstate Brick Co
Malvern Flue Lining Inc
Mason City Brick & Tile
Mosaic Tile Co
Natco Corp
Summitville Tiles Inc
United States Ceramic Tile Co

Tile, Insulating (See Insulating Board) Tile, Linoleum, Floor (See Linoleum Roll & Tile)

Tile, Quarry
American Olean Tile Co
Amsterdam Corp
Builders Brick Co
Carlyle Tile Co
Columbia Brick Works
Empress Brick Co Inc
Gladding McBean & Co
Hanley Co
Hood Ceramic Corp
Interstate Brick Co
Ludowici-Celadon Co
Mosaic Tile Co
Murray Tile Co Inc
National Pool Equipment Co
Summitville Tiles Inc
United States Ceramic Tile Co

Tile, Roofing
Gladding McBean & Co
Ludowici-Celadon Co
Wolevrine Porcelain Enameling Co
Zonolite Co

Tile, Rubber
American Biltrite Rubber Co
Armstrong Cork Co
Crown Rubber Co
Danbury Rubber Co Inc
Flintkote Co
Forman-Ford & Co
Goodrich B F Co Flooring Products
Kentile Inc
Mitchel Rubber Prods Inc
Musson R C Rubber Co
Robbins Floor Products Inc
United States Rubber Co

Tile, Structural Acme Brick Co Acme Shale Brick Co Inc Arketex Ceramic Corp Brookhaven Pressed Brick Mfg Co Builders Brick Co Charleston Clay Prods Co Columbia Brick Works Design Technics Elgin-Standard Brick Co Inc Empress Brick Co Inc Hanley Co. Hope Brick Works Humboldt Brick & Tile Co Interstate Brick Co Jenkins Brick Co Malvern Flue Lining Inc Mason City Brick & Tile Metropolitan Brick Inc Midland Brick & Tile Co Summit Pressed Brick & Tile Co Texas Brick Co United Brick & Tile Co West Virginia Brick Co

Tile, Vinyl
American Biltrite Rubber Co
Armstrong Cork Co
Arterest Products Co Inc
Azrock Floor Products Div
Bird & Son Inc
Congoleum-Nairn Inc
Danbury Rubber Co Inc
Dodge Cork Co Inc
Flintkote Co
Forman-Ford & Co
General Tire & Rubber Co Bidg Materials
Goodrich B F Co Flooring Products
Johns-Manville Corp
Kentile Inc
Mastic Tile Div Ruberoid Co
Robbins Floor Products Inc

Ruberoid Co Vinyl Plastics Inc.

Tile, Wall, Hardboard Abitibi Corp Barclay Mfg Co Inc Kochton Plywood & Veneer Co Inc. Masonite Corp Wood Conversion Co

Tile, Wall, Leather Kiefer International Products Co Div

Tile, Wall, Marble (See Flooring & Wall Covering, Marble)

Tile, Wall, Metal Alloy Tile Corp Crown Tile Corp Goldsmith Metal Lath Co Hastings Aluminum Products Inc Vikon Tile Corp Wheeling Corrugating Co

Tile, Wall, Plastic Arterest Products Co Inc Cermak Tile Co Inc Forman-Ford & Co Formica Corp General Tire & Rubber Co Bldg Materials Div Lustro Tile Mfg Co Marsh Wall Products Inc Mastro Plastics Corp Miraplas Tile Co Selck Walter E & Co Sunbeam Plastics Corp Tilemaster Corp Tile-Rite Corp

Tile, Wall, Porcelain Enamel Vikon Tile Corp Wolverine Porcelain Enameling Co

Tileboard, Prefinished

Afco Corp Barclay Mfg Co Inc Kochton Plywood & Veneer Co Inc Marsh Wall Products Inc Prestile Mfg Co. Simpson Timber Co Tex-A-Panel Mfg Co Wallace Mfg Co Wood Conversion Co.

Timber Connectors Cleveland Steel Specialty Co Kees F D Mfg Co Timber Engineering Co



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Timber Fasteners Inc

(See Plumbing Fixtures) Tools

(See Cutters, Drills, Guns, Hammers, Nailing Machines, etc.)

Tools, Carpenter, Hand Bridgeport Hardware Mfg Corp Champion Dearment Tool Co Cincinnati Tool Co Damascus Steel Products Corp Desmond-Stephan Mfg Co DeWalt Inc Disston Div H K Porter Co Inc Eagle Rule Mfg Corp Eliason Tool Co Empire Level Mig Co Federal Hardware Products Div Fletcher-Terry Co Freeman Doorjack Co General Hardware Mfg Co Inc

Gensco Tools Graham John H & Co Inc Greenlee Tool Co Gypsum Ceiling Jack Co Hartford Clamp Co Hartmeister Mfg Inc Heller Tool Co Hood Bros Irwin Auger Bit Co J M J Industries Inc Kedman Co Kenco Mfg Co Kimball Mfg Co Mayhew Steel Products Inc Millers Falls Co Milwaukee Elec Tool Corp Nicholls Mfg Co. Nicholson File Co Owatonna Tool Co Oxwall Tool Co Ltd Parker Mfg Co Phillips Drill Co Plumb Fayette R Inc Pootatuck Corp Ramset Fastening System Roe Justus & Sons Safety Nail Driver Corp Sargent & Co Stanley Tools Starrett L S Co Stortz John & Son Inc True Temper Corp Turn-A-Bore Equipment Co Union Tool Co. Vaughan & Bushnell Mfg Co Wallboard Tool & Equipment Co Warren Tool Corp Will-Burt Co.

Tools, Concrete Finishing

(See also Concrete Vibrators)
Chicago Pneumatic Tool Co
Diaston Div H K Porter Co Inc Goldblatt Tool Co Nicholls Mfg Co Peerless Level & Tool Co Remington Arms Co Inc. Sands Level & Tool Co Speedway Mfg Div Thor Power Tool Co Stortz John & Son Inc Stow Mfg Co Thor Power Tool Co Whiteman Mfg Co

Tools, Masons, Plasterers Adams Co

Bridgeport Hardware Mfg Corp Clipper Mfg Co Columbia Brick Works Damascus Steel Products Corp Disston Div H K Porter Co Inc Empire Level Mfg Co Fletcher-Terry Co General Hardware Mfg Co Inc Goldblatt Tool Co Graham John H & Co Inc Industrial Iron Works Jeff Jones Co Karelius Albert & Sons Inc Mayes Bros Tool Mfg Co Muller Machinery Co Inc Nicholls Mfg Co Park Tool Co Peerless Level & Tool Co Phillips Drill Co. Plumb Fayette R Inc Port Austin Level & Tool Mfg Co Ramset Fastening System Remington Arms Co Inc Rice Pump & Machine Co. Safety Nail Driver Corp Sands Level & Tool Co Stanley Tools Stortz John & Son Inc Superior Scaffold Co Vaughan & Bushnell Mfg Co

Tractor Attachments Allis Chalmers Mfg Const Mach Div Arps Corp Case J I Co Caterpillar Tractor Co

Danuser Machine Co Eimco Corp Equipment Div Young Spring & Wire Ford Motor Co Tractor & Implement Div Gar Wood Industries Inc Gilson Bros Co. Henry Mfg Co Inc Hough Frank Co Hyster Co John Deere Industrial Div Koehring Co LeTourneau-Westinghouse Co Massey-Ferguson Inc Industrial Div Minneapolis-Moline Co Oliver Corp Parson Co Div Pitman Mfg Co Porter-Cable Machine Co Preco Inc Roseman Tractor Equipment Co Schwartz Mfg Co Servis Equipment Co Toro Mfg Co Tractor Div International Harvester Co Universal Pulleys Co Inc Wagner Iron Works

Tractors
Allis Chalmers Mfg Constr Mach Div Automatic Transportation Co Barrett Cravens Co Case J I Co Caterpiliar Tractor Co Clark Equipment Co Industrial Truck Div Eimeo Corp Ford Motor Co Tractor & Implement Div Gilson Brothers Co Hough Frank Co John Deere Industrial Div LeTourneau-Westinghouse Co Lewis-Shepard Products Inc Massey-Ferguson Inc Industrial Div Mead Specialties Co Minneapolis-Moline Co Oliver Corp Porter-Cable Machine Co Toro Mfg Co. Tractor Div International Harvester Co

Trailers, Field Office Contractors Trailer Co

(See Instruments, Surveying)

Trenchers & Ditchers American Hoist & Derrick Co Arps Corp Barber Greene Co Cleveland Trencher Co Danuser Machine Co Earth Equip Corp Equipment Div Young Spring & Wire Ford Motor Co Tractor & Implement Div Gar Wood Industries Inc John Deere Industrial Div Kent Air Tool Co Koehring Co Massey-Ferguson Inc Industrial Div Parson Co Div Servis Equipment Co Vermeer Mfg Co Witch Marketing Co Wood Shovel & Tool Co

Trim & Casings, Metal (See Casing, Metal) Trim, Wood (See Millwork & Moldings, Wood) Trowels, Power

(See Concrete Finishing Machines)

Trucks, Fork Lift
Allis Chalmers Mfg Constr Mach Div
Automatic Transportation Co Barrett Cravens Co Clark Equip Co Industrial Truck Div Equipment Div Young Spring & Wire Ford Motor Co Tractor & Implement Div General Engines Co Inc Getman Brothers **Grand Specialties** Henry Mfg Co Inc Hyster Co Koehring Co Lewis-Shepard Products Inc Massey-Ferguson Inc Industrial Div Oliver Corp Silent Hoist & Crane Co Tractor Div International Harvester Co Uhrden Inc. Yale & Towne Mfg Co Yale Materials

Trucks, Hand & Platform Barrett Cravens Co Colson Corp Grand Specialties Co Jackson Mfg Co Rapids-Standard Co Inc Yale & Towne Mfg Co Yale Materials

Trucks, Motor Chevrolet Motor Div Gen Motors Diamond T Motor Truck Co Dodge Div Ford Motor Co Koehring Co Marmon-Herrington Co Inc Motor Truck Div International Harvester Co Prime Mover Co

Tractor Div International Harvester Co Volkswagon of America Inc White Motor Co Willys Motors Inc

Trusses, Roof, Steel Belson Mfg Co Bethlehem Steel Co

Reo Div White Motor Co Studebaker-Packard Corp

Ceco Steel Prods Corp Cuckler Steel Span Co Haven-Busch Co International Steel Co. Macomber Inc Republic Steel Corp Truscon Div Sheffield Div Armco Steel Corp **Tubular Structures of America**

Trusses, Roof, Wood Bradley Southern Div Diamond Lumber Co Gang Nail Sales Co Prefabricated Prods Co Inc Rilco Laminated Products Rosboro Lumber Co. Sanford Gri-P-Late Co Super-Structures Inc Timber Engineering Co



TIMBER ENGINEERING COMPANY 1319 18th St., N.W., Washington 6, D. C.

Timber Fabricators Inc Timber Structures Inc Unit Structures Inc

Tubing (See Pipe & Tubing) Tubs, Bath (See Plumbing Fixtures) **Tubs, Laundry**

(See also Plumbing Fixtures) Active Tool & Mfg Co

American-Standard Plumbing & Heating Div Cleveland Wash Tray Mfg Co Cutler Metal Prods Co

Kohler Co Mustee E L & Sons Inc Reed Cromex Corp Reeves Steel & Mfg Co Div Richmond Plumbing Fixtures Viking Mfg Corp Voss Washer Co

Tubs, Mixing Fortex Industries Inc Vestal Mfg Co.

Underlayment Flooring (See Flooring, Underlayment)

Vanities, Lavatory Atkins Wood Products Corp Borg-Warner Corp Ingersoll Humphryes Boro Wood Prods Co Inc Caradco Inc Case Mfg Div Chicago Pottery Co Colonial Products Co Curtis Companies Inc Farley & Loetscher Mfg Co Great Northern Mfg Corp Gregg & Son Inc I-XL Furniture Co Kitchen Kompact Inc Lehman Specialty Co Morgan-Wightman Co



National Vanity Co Pease Woodwork Co Inc Precisionware Inc Regal Laminates Inc Royal Woodwork Inc Sani-Top Inc Scheirich H J Co Schenck William & Co Sherle-Wagner Standard Steel Cabinet Co Tedrick Bros Mfg Co Inc Texboro Cabinet Corp Tiffany Mfg Co Inc Toperaft Inc. United Metal Cabinet Corp Williams Products Inc

Vapor Barriers (See also Paper, Building; Sheathing)

Abesto Mfg Co Air O-Cel Allied Chemical Corp Barrett Div American Sisalkraft Corp Arvey Corp Bird & Son Inc Carey Philip Mfg Co Deita Co Dow Chemical Co Gering Plastics Div

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Infra Insulation Inc Johns-Manville Corp Kaiser Aluminum & Chemical Corp Koppers Co Inc Durethene Plant Kordite Co Lifetime Industries Inc Ludlow Papers Div of Ludlow Corp Meadows W R Inc Mortell J W Co National Mfg Corp Presstite Div American-Marietta Co

Protective Papers Inc Quaker State Metals Co Reynolds Aluminum Supply Co Reynolds Metals Co Richkraft Co Ruberoid Co. Sonneborn Chemical & Refining Corp Thilmany Pulp & Paper Co Tiger Brands Inc Sub of Basic Inc Visking Co. Warp Brothers Wasco Products Inc

Ventilating Hoods See Fans, Exhaust, Bath & Kitchen) **Ventilating Registers** (See Registers, Heating & Ventilating)

Ventilators, Kitchen (See Fans, Exhaust, Bath & Kitchen)

Ventilators, Roof & Wall Acme Engineering & Mfg Corp Adams Co Air Devices Inc Airolite Co Aluminum Co of America American Coolair Corp American Standard Industrial Div Atkinson Mfg Co Aubrey Hardware Mfg Inc Berns Air King Corp Burt Mfg Co Ceco Steel Prods Corp Chelsea Fan & Blower Co Inc Chicago Blower Corp Clarage Fan Co Clay Equipment Corp Cleveland Steel Specialty Co Cole Mfg Co Consolidated General Prod Inc Damp-Vent Co Dayton Electric Mfg Co Donley Brothers Co Emerson Electric Mfg Co Emerson-Pryne Co Farley & Loetscher Mfg Co Fasco Industries Inc Gregg & Son Inc H-C Products Co Hamlin Prods Inc Hudson H D Mfg Co ILG Electric Ventilating Co Inland Steel Products Co Jackson Mfg Co Klauer Mfg Co Leigh Building Products Leslie Welding Co Inc Louden Machinery Co Louver Mfg & Supply Louv-R-Pak Inc Macklanburg-Duncan Co Marvin Mfg Co Midget Louver Co. National Gypsum Co Olson Mfg Co Parker S Hardware Mfg Corp Peerless Electric Div H K Porter Co Inc Pennsylvania Wire Glass Co Perfect-Line Mfg Corp Reynolds Aluminum Supply Co Rudeen N H Co Inc Starline Inc. Stewart Industries Inc Stewart S J Electric Trane Co United States Gypsum Co Ventrola Mfg Co Vestal Mfg Co Wasco Products Inc

Vibrators, Concrete (See Concrete Vibrators)

Weather-Bloc Co Inc Westinghouse Electric Corp

Wilke Metal Products Inc

Yeck Mfg Co

Vinyl Tile (See Tile, Vinyl) Allianceware Inc

Erdle Perforating Co Inc Kawneer Co

Wall Coverings, Fabric

Birge Co Inc
Columbus Coated Fabric Corp
Curtiss Wright Corp Curon Div
Fabrikona Inc
Goodrich B F Industrial Products Co
Imperial Color Chemical & Paper Corp
New Castle Products Inc
Standard Coated Prods Inc
Suncraft Inc
United States Plywood Corp

Wall Coverings, Plastic
Arterest Products Co Inc
Cermak Tile Co Inc
Congoleum Nairn Inc
Decro-Wall Corp
Fabrikona Inc
General Electric Co Laminated Prods
Lustro Tile Mfg Co
Masland Duraleather Co
National Gypsum Co
Polyplastex United Inc
St Regis Paper Co Panelyte Div
Sherle-Wagner
Standard Coated Prods Inc

Wall Plates, Decorator Arrow Hart & Hegeman Elec Co General Electric Co Wiring Device Dept

Wall Safes (See Safes, Wall) Wall Tile (See Tile, Wall)

Wallboard, Asbestos Cement
Carey Philip Mfg Co
Fiberboard Paper Prods Inc
Fiintkote Co
Johns-Manville Corp
Keasbey & Mattison Co
Lehon Co
Ruberoid Co
United States Plywood Corp

Waliboard, Gypsum
Allied Chemical Corp Barrett Diy
Beadex Mfg Inc
Bestwall Gypsum Co
Celotex Corp
Chicago Fire Brick Co
Fiberboard Paper Prods Inc
Flintkote Co
Grand Rapids Gypsum Co
Hartmeister Mfg Inc
Kaiser Gypsum Co Inc
National Gypsum Co
Ruberold Co
United States Gypsum Co

Wallboard & Sheathing, Fiber (See also Insulating Board)

American Sisalkraft Corp Allied Chemical Corp Barrett Div Armstrong Cork Co Celotex Corp Fleming & Sons Inc Flintkote Co Forest Fiber Products Co. Homssote Co. Insulite Div Minn & Ontario Paper Co Johns-Manville Corp Kaiser Gypsum Co Inc Kochton Plywood & Veneer Co Inc Paxton Frank Lumber Co Plastergon Wall Board Co Reynolds Aluminum Supply Co Simpson Timber Co Southern Pine Lumber Co United States Gypsum Co Superwood Corp Upson Co Wood Conversion Co

Wallpaper
Birge Co Inc
Buffalo Wallcraft Co Inc
Cook Paint & Varnish Co

Devoe & Raynolds Co Inc Imperial Color Chemical & Paper Corp Peaslee-Gaulbert Paint & Varnish Co Pittsburgh Plate Glass Co Prager Co Inc Sherle-Wagner Stamford Wallpaper Co Inc York Wall Paper Co

Washers & Dryers, Clothes
Blackstone Corp
Easy Laundry Appliances Div
Frigidaire Div General Motors Corp
General Electric Co Major Appliance
Hamilton Mfg Co
Hotpoint Div
Kelvinator Div American Motors Co
Maytag Co
Norge Div Borg-Warner Corp
O'Keefe & Merritt Co
Philico Corp
Speed Queen Div McGraw-Edison Co
Suburban Propane Gas Corp
Temco Industries Div
Voss Washer Co
Westinghouse Electric Appliance Div
Westinghouse Electric Corp
Whirlpool Corp

Water Closets (See Plumbing Fixtures) Water Heaters, Electric American-Standard Plumbing & Heating

Bastian-Morley Co Inc Carrier Corp Cleveland Heater Co Coleman Co Inc Cutler-Hammer Inc Day & Night Mfg Co Eagle Electric Mfg Co Frigidaire Div General Motors Corp Gaffers & Sattler Div General Electric Co Major Appliance Hedges M M Mfg Co Inc Hotpoint Div Hotstream Heater Co Kelvinator Div American Motors Co Koven L O & Bro Inc. Little H C Burner Co Monarch Range Co Morgan-Wightman Co National Disposer National Rubber Machinery Co Norge Div Borg-Warner Corp Pioneer Mfg Co Smith A O Corp Permagias Div Thermador Elec Mfg Co Vulcan Electric Co Waldorf Heater Co Waterfilm Boilers Wayne Home Equipment Co Inc Wesix Electric Heater Co Westinghouse Electric Appliance Div Westinghouse Electric Corp White Products Corp Wood John Co Heater & Tank Div

Water Heaters, Gas American Radiator & Standard Sanitary American-Standard Plumbing & Heating Bastian-Morley Co Inc Bryant Mfg Co Carrier Corp Cleveland Heater Co Coleman Co Inc Day & Night Mfg Co Dearborn Stove Co Deleo Appliance Div General Motors Federal Boiler Co Inc Gaffers & Sattler Div Hedges M M Mfg Co Inc Holly-General Co Div Siegler Corp Hotstream Heater Co Insta-Matic Heater Co Koven L O & Bro Inc Little H C Burner Co Monarch Range Co Morgan-Wightman Co Mustee E L & Sons Inc Norge Div Borg-Warner Corp Ploneer Mfg Co Ronan & Junzi Inc

Ruud Mfg Co Smith A O Corp Permaglas Div Suburban Propane Gas Corp Waldorf Heater Co Waterfilm Bollers Wayne Home Equipment Co Inc White Products Corp Wood John Co Heater & Tank Div

Water Heaters, Oil
Coleman Co Inc
Delco Appliance Div General Motors
Federal Boiler Co Inc
Gilbert & Barker Mfg Co
Hoistream Heater Co
Koven L O & Bro Inc
Kreano-Stamm Corp
Kreaky Mfg Co Inc
Toridheet Div Cleveland Steel Prods Corp
Waterfilm Boilers
Wood John Co Heater & Tank Div

Water Softeners & Conditioners Clayton Mark & Co Culligan Inc Dynion Water Systems Inc Elgin Softener Corp Flint & Walling Mfg Co Inc Lancaster Pump & Mfg Co Inc Lindsay Co Modern Swimming Pool Co Inc Myers F E & Bros Co Pennsalt Chemicals Corp Permutit Co Div Pfaudler Permutit Inc Red Jacket Mfg Co Smith A O Corp Permaglas Div Tait Mfg Co Uniflow Mfg Co Wayne Home Equipment Co Inc White Products Corp

Water Supply (See Pumps, Domestic Water Supply)

Waterproofing Compounds Abesto Mfg Co Allied Chemical Corp Barrett Div Allied Compositions Co Inc American Bitumuls & Asphalt Co American Sta-Dri Co Anti Hydro Waterproofing Co Bi-Products Corp Borden Chemical Co Div Borden Co Cabot Samuel Inc Calbar Inc Camp Co Inc Carey Philip Mfg Co Ceresit Corp Colorcrete Industries Inc Concrete Weld Co Dad & Lad Co Dasco Co Inc Devoe & Raynolds Co Inc Douglas & Sturgess Emco Cement Products Inc **Evercrete Corp** Flintkote Co. Henry W W Co Horn A C Companies Div Sun Chem Corp Johns-Manville Corp Kay-Tite Co Koppers Co Inc Durethene Plant Lastik Paint Inc Logan-Long Co Lumino Co Marsh Wall Products Inc Master Builders Co Meadows W R Inc Medusa Portland Cement Co Monroe Co Inc National Gypsum Co National Mfg Corp Nova Sales Co Pecora Inc Penn Crete Prods Co Permagile Corp of America Pittsburgh Plate Glass Co Plextone Corp of America Presstite Div American-Marietta Co Protection Products Mfg Co Ranetite Mfg Co

Reardon Co Re-Nu-It Corp Ruberoid Co Rutland Fire Clay Co Seddon Co Sika Chemical Corp Silicones Div Union Carbide Silicone Products Dept General Electric Smooth-On Mfg Co Sonneborn Chemical & Refining Corp Standard Dry Wall Products Inc Steelcote Mfg Co Sullivan Co Super Concrete Emulsions Tamms Industries Co. Thompson E A Co Inc. Toch Bros Tremco Mfg Co Truscon Labs Inc Tufcrete Co Inc Wasco Products Inc. Watco-Dennis Corp Wooster Sealkote Co X-Pando Corp

Weatherstripping Air-Tite Products Inc Allmetal Weatherstrip Co **Aluminum Industries** Asphalt Corp of America B & T Metals Co Baltz Robert N & Co Inc Boise Cascade Corp Caldwell Mfg Co Central Metal Strip Co Chamberiin Co of America Chicago Meial Strip Co Dennis W J & Co Duraftex Co Durkee-Atwood Co Formetal Inc. Goshen Sash & Door Co Grand Rapids Hardware Co J & B Plastics Co Inc Johns-Manville Corp Kessler Products Co Lock-Joint Window Co Loxcreen Co Inc Macklanburg-Duncan Co Master Metal Strip Service Inc Mortell J W Co National Metal Prods Pemko Míg Co Precision Weatherstrip Co Reese Metal Weatherstrip Co Roberts Co Sager Weatherstrip & Caulking Schlegel Mfg Co Screens & Fabric Metals Corp Seal-A-Door Co Sentry Stop-A-Draft Co Spanjers A J Co Sterling Alderfer Co Sun Screen Products Co Unique Window Balance Corp United Industries Inc United States Rubber Co Weatherproof Products Corp Woodside Engineering Co Zegers Inc

Window Hardware (See Hardware, Window) Window Screens (See Windows & Doors, Combination) Window Sills

Blum Julius & Co Inc Bradley Southern Div Curtis Companies Inc Fiberesin Plastics Co Hartglass Co Mueller Brass Co Ware Aluminum Windows Inc

Window Surrounds, Metal Bradley Southern Div Ceco Steel Prods Corp Cleveland Steel Specialty Co Davidson Enamel Products Inc Dayton Sure-Grip & Shore Co DeVac Inc
Fenestra Inc
Hopes Windows Inc
Kawneer Co
Lifetime Industries Inc
Mesker Bros Iron Co
Mueller Brass Co
Northwest Metal Products Inc
Royal Jalousie Co
Rusco Div of F C Russell Co
W M Products Co
Ware Aluminum Windows Inc

Ware Aluminum Windows Inc Windows, Awning Type, Metal Alsco Inc Arnold Altex Aluminum Co Brown & Grist Inc Capitol Products Corp Ceco Steel Prods Corp. Continental Aluminum Products Co Crossly Window Corp Durell Products Inc General Bronze Corp Look Products Inc Maco Corp Marmet Corp Mesker Bros Iron Co Metal Trims Inc Miami Window Corp Michel & Pfeffer Iron Works Inc Mueller Brass Co National Window Corp North East Metal Products Corp Regal Products Corp Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Royal Jalousie Co Silver Line Co Southern Sash Sales & Supply Co Storm King Corp Superior Window Co

Windows, Awning Type, Wood

Universal Fabricators

Universal Window Co

Winter Seal Corp

Ware Aluminum Windows Inc

Andersen Corp Angel Co Biltbest Corp Boise Cascade Corp Caradeo Inc. Cole Mfg Co Crestline Co Curtis Companies Inc Etling Window Fabrow Mfg Inc Farley & Loetscher Mfg Co Goshen Sash & Door Co Gregg & Son Inc International Paper Co Long-Bell Div Lee Millwork Corp Malta Mfg Co Morgan Company Ohio Plate Glass Co. Paxton Frank Lumber Co R O W Window Sales Co Reuten Fred Inc Rock Island Millwork Co Factory Div Rockwell of Randolph Inc Rolscreen Co Southern Sash Sales & Supply Co Wabash Screen Door Co. Woodco Corp

Windows, Basement & Utility,

Aluminum
Alumatic Corp of America
Cleveland Steel Specialty Co
Colorado Metal Prod Corp
Copco Steel & Engineering Co
Crossly Window Corp
DeVac Inc
E-Z Set Windows Inc
Fleet of America Inc
Ida Products Co
Inland Steel Products Co
Kewanee Mfg Co
Kreuger Mfg Co
Look Products Inc
Marmet Corp

Miami Window Corp
Mueller Brass Co
North East Metal Products Corp
Reynolds Aluminum Supply Co
Reynolds Metals Co
Royal Jalousie Co
Schumacher F E Co
Southern Sash Sales & Supply Co
Vento Steel Products Co Inc
Windalume Corp
Winter Seal Corp
Woodside Engineering Co

Windows, Basement & Utility, Steel

Adams Co Ceco Steel Prods Corp Colorado Metal Prod Corp Donley Brothers Co. Fenestra Inc Hopes Windows Inc Inland Steel Products Co Jeffery Form Tie Co Kewanee Mfg Co Louden Machinery Co New Monarch Machine & Stamping Republic Steel Corp Truscon Div Rusco Div of F C Russell Co United States Gypsum Co Vento Steel Products Co Inc Vestal Mfg Co Woodside Engineering Co.

Windows, Basement & Utility, Wood

Andersen Corp
Angel Co
Boise Cascade Corp
Caradco Inc
Cole Mig Co
Crestline Co
Curtis Companies Inc
Etling Window
Fabrow Mig Inc
Farley & Loetscher Mig Co
Goshen Saah & Door Co
Gregg & Son Inc
Ida Products Co





International Paper Co Long-Bell Div Morgan Company Morgan-Wightman Co Pacific Mutual Door Co Paxton Frank Lumber Co Rock Island Millwork Co Factory Div Rockwell of Randolph Inc Southern Mill & Mfg Co Wabash Screen Door Co White Pine Sash Co Woodeo Corp

Windows, Bow, Wood Caradeo Inc Curtis Companies Inc Fabrow Mfg Inc Lee Millwork Corp



Ohio Plate Glass Co Reuten Fred Inc Southern Mill & Mfg Co Woodco Corp

Windows, Casement, Aluminum Air Vue Products Corp Alsco Inc Bayley William Co

Ceco Steel Prods Corp Davidson Enamel Products Inc DeVac Inc E-Z Set Windows Inc Fuller W P & Co Ida Products Co Kawneer Co Kreuger Mfg Co Maco Corp Marmet Corp Mesker Bros Iron Co Michel & Pfeffer Iron Works Inc Mueller Brass Co Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Reynolds Metals Co Southern Sash Sales & Supply Co Universal Fabricators Universal Window Co Ware Aluminum Windows Inc. Wilke Metal Products Inc Winter Seal Corp

Windows, Casement, Steel
Bayley William Co
Ceco Steel Prods Corp
Durell Products Inc
Hopes Windows Inc
Mesker Bros Iron Co
Michel & Pfeffer Iron Works Inc
Republic Steel Corp Truscon Div

Windows, Casement, Wood Andersen Corp Biltbest Corp Boise Cascade Corp Caradeo Inc Crestline Co Curtis Companies Inc **Durell Products Inc** Etling Window Fabrow Mfg Inc Farley & Loetscher Mfg Co Ideal Co Mfg Div Wm Cameron & Co International Paper Co Long-Bell Div Malta Mfg Co Ohio Plate Glass Co Paxton Frank Lumber Co Pullum Window Corp R O W Window Sales Co Reuten Fred Inc Rock Island Millwork Co Factory Div Holscreen Co Southern Mill & Mfg Co Southern Sash Sales & Supply Co

Windows & Doors, Combination Screen & Storm Sash, Aluminum

Wabash Screen Door Co

Woodeo Corp

Alumatic Corp of America **Aluminum Industries** Capitol Products Corp Chamberlin Co of America Copco Steel & Engineering Co Commod Prods Corona Mfg Corp Devac Inc Etling Window General Bronze Corp Goshen Sash & Door Co Hess Mfg Co Hettrick W E & Son Co Humphrey Products Inc Ida Products Co Insul-Wool Insulation Corp Jasco Aluminum Products Kane Mfg Corp Keystone Alloys Co Kreuger Mfg Co Loxcreen Co Inc Moloney Co Morgan-Wightman Co North East Metal Products Corp Paxton Frank Lumber Co Regal Products Corp Remington Alum Window Corp Reynolds Aluminum Supply Co Royal Jalousie Co Rudiger-Lang Co Sager Weatherstrip & Caulking

Schumacher F E Co
Screens & Fabric Metals Corp
Security Aluminum Co
Silver Line Co
Spanjers A J Co
State Metal Awnings Ine
Visador Co
Vulcan Metal Prods Inc
W M Products Co
Weather Seal Inc
Wells Aluminum Corp
Wilke Metal Products Inc
Winsulite Mfg Co
Winter Seal Corp
Woodco Corp

Windows & Doors, Combination Screen & Storm Sash, Steel Kane Mfg Corp

Rusco Div of F C Russell Co Vestal Mfg Co Winter Seal Corp

Windows & Doors, Combination Screen & Storm Sash, Wood

Andersen Corp Angel Co Caradeo Inc Crestline Co Curtis Companies Inc DeVac Inc Farley & Loetscher Mfg Co Goshen Sash & Door Co International Paper Co Long-Bell Div Morgan Company Northwest Door Co Div Paxton Frank Lumber Co Phenix Mfg Co Philadelphia Screen Mfg Co Rock Island Millwork Co Factory Div Rockwell of Randolph Inc Schumacher F E Co Southern Mill & Mfg Co Spokane Sash & Door Co Wabash Screen Door Co Wooden Corp

Windows, Double Hung, Aluminum

Air Vue Products Corp Albritton Engineering Corp Alsco Inc Ceco Steel Prods Corp Cole Mfg Co DeVac Inc Fenestra Inc Fleet of America Inc Flynn Michael Mfg Co General Bronze Corp **Humphrey Products Inc** Ida Products Co Kreuger Mfg Co Look Products Inc Mueller Brass Co Pomeroy S H Co Inc Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Reynolds Metals Co Southern Sash Sales & Supply Co Trim Slide Inc W M Products Co Windalume Corp Winter Seal Corp

Windows, Double Hung, Steel Fenestra Inc Pomeroy S H Co Inc

Pomeroy 5 H Co Inc Republic Steel Corp Truscon Div Rusco Div of F C Russell Co

Windows, Double Hung, Wood
A R B Window Sales Co
Andersen Corp
Boise Cascade Corp
Caradea Inc
Cole Mfg Co
Crestline Co
Curtis Companies Inc
Dierks Forests Inc
Etiling Window
Fabrow Mfg Inc
Farley & Loetscher Mfg Co
Ideal Co Mfg Div Wm Cameron & Co

International Paper Co Long-Bell Div Kesko Prods Inc Lee Millwork Corp Maita Mfg Co Missoula White Pine Sash Co Morgan-Wightman Co



Ohio Piate Glass Co
Paxton Frank Lumber Co
Pease Woodwork Co Inc
Pullum Window Corp
R O W Window Sales Co
Rock Island Millwork Co Factory Div
Southern Mill & Mfg Co
Woodco Corp

Windows, Hopper Vent, Metal Albritton Engineering Corp

Bayley William Co Hopes Windows Inc Kawneer Co Kewanee Mfg Co Maco Corp Marmet Corp Mesker Bros Iron Co Metal Trims Inc Michel & Pfeffer Iron Works Inc Mueller Brass Co National Window Corp Republic Steel Corp Truscon Div Valley Metal Prods Co Ware Aluminum Windows Inc Wilke Metal Products Inc Windalume Corp

Windows, Hopper Vent, Wood Andersen Corp

Andersen Corp
Caradeo Inc
Curtis Companies Inc
Dierks Forests Inc
Farley & Loetscher Mfg Co
International Paper Co Long-Bell Div
Malta Mfg Co
Ohio Plate Glass Co
Rock Island Millwork Co Factory Div
Rolscreen Co
Southern Mill & Mfg Co
Woodeo Corp

Windows, Horizontal Gliding Metal (See also Doors, Sliding Glass)



Albritton Engineering Corp Alsco Inc Alumatic Corp of America Aluminum Industries Arcadia Metal Products Capitol Products Corp Copco Steel & Engineering Co Corona Mfg Corp Crossly Window Corp DeVac Inc Durell Products Inc Etling Window
E-Z Set Windows Inc
Fleet of America Inc
Formetal Inc
General Bronze Corp
Hollyview Aluminum Rolling Glass
Humphrey Products Inc
Ida Products Co



Kewanee Mfg Co Kreuger Mfg Co Look Products Inc. Mesker Bros Iron Co Metal Trims Inc Miami Window Corp Michel & Pfeffer Iron Works Inc Mueller Brass Co National Window Corp Ohio Plate Glass Co Peterson Window Corp Radeo Products Inc Regal Products Corp Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Royal Jalousie Co Southern Sash Sales & Supply Co Storm King Corp Trim Slide Inc Trimview Metal Products Ware Aluminum Windows Inc Whizzer Industries Inc



Windows, Horizontal Gliding, Wood (See also Doors, Sliding Glas

(See also Doors, Sliding Glass)
A R B Window Sales Co
Andersen Corp
Crestline Co
Curtis Companies Inc
DeVac Inc
Etling Window
Farley & Loetscher Mig Co
Horizon Door Co
International Paper Co Long-Bell Div
Maita Mig Co
Miller Sliding Glass Door Co Inc
Ohio Plate Glass Co
Pullum Window Corp
R O W Window Sales Co
Rock Island Milliwork Co Factory Div
Southern Mill & Mig Co
Woodco Corp

Windows, Jalousie Air Vue Products Corp Alsee Inc

Arnold Altex Aluminum Co Chamberlin Co of America Continental Aluminum Products Co Fleet of America Inc Look Products Inc North East Metal Products Corp Regal Products Corp Regulux Sash & Door Co Republic Steel Corp Truscon Div Reynolds Aluminum Supply Co Royal Jalousie Co Southern Sash Sales & Supply Co Universal Fabricators Ware Aluminum Windows Inc Wells Aluminum Corp Winter Seal Corp Woodco Corp

Windows, Metal, Louver-Based Mueller Brass Co North East Metal Products Corp

Windows, Plastic
American Sisalkraft Corp
Arvey Corp
Chemold Co
Diperaft Mfg Corp
Heinley Mastereraft Products
Koppers Co Inc Durethene Plant
Kordite Co
Plyco Corp

Reynolds Aluminum Supply Co

Windows, Projected, Aluminum Air Vue Products Corp Bayley William Co Bliss Steel Prods Corp DeVac Inc Fenestra Inc Flynn Michael Mfg Co Hopes Windows Inc Metal Trims Inc Miami Window Corp Michel & Pfeffer Iron Work Inc Mueller Brass Co National Window Corp Peterson Window Corp Republic Steel Corp Truscon Div Royal Jalousie Co Southern Sash Sales & Supply Co Valley Metal Prods Co Vento Steel Products Co Inc Ware Aluminum Windows Inc Windalume Corp Winter Seal Corp

Windows, Security, Steel
Bayley William Co
Bliss Steel Prods Corp
Hopes Windows Inc
Meaker Bros Iron Co
Michel & Pfeffer Iron Works Inc
Republic Steel Corp Truscon Div

Windows, Single Hung, Aluminum & Steel Air Vue Products Corp

Alsco Inc Albritton Engineering Corp Ceco Steel Prods Corp Crossly Window Corp DeVac Inc Fenestra Inc Formetal Inc. General Bronze Corp Ida Products Co Kawneer Co Metal Trims Inc Michel & Pfeffer Iron Works Inc Mueller Brass Co National Window Corp Regal Products Corp. Republic Steel Corp Trucson Div Reynolds Aluminum Supply Co Reynolds Metals Co Royal Jalousie Co Rusco Div of F C Russell Co Southern Sash Sales & Supply Co W M Products Co Ware Aluminum Windows Inc Windalume Corp Winter Seal Corp

Windows, Single Hung, Wood Caradeo Inc Crestline Co DeVac Inc Paxton Frank Lumber Co Windows, Storm (See Windows & Doors,

Combination)
Windows, Structural, Wood
Andersen Corp
Crestline Co
Fabrow Mig Inc

Reuten Fred Inc Southern Mill & Mfg Co

Wire American Steel & Wire Div Bethlehem Steel Co Chase Brass & Copper Inc Circle Wire & Cable Corp Colorado Fuel & Iron Corp Continental Steel Corp Conver Steel & Wire Co Copperweld Steel Co Wire & Cable Div Eagle Electric Mfg Co Forbes Steel Corp General Cable Corp General Electric Co Constr Materials Jones & Laughlin Steel Corp Kaiser Aluminum & Chemical Corp Laclede Steel Co Mid-States Steel & Wire Co Northwestern Steel & Wire Co Phelps Dodge Copper Prods Corp Sheffield Div Armco Steel Corp Sommer Metal Craft Corp Teuch Plate Mfg Corp Triangle Conduit & Cable Co Inc United States Steel Corp Youngstown Sheet & Tube Co

Wiring, Concealed Telephone American Telephone & Telegraph Co

Wiring Devices, Electrical Arrow Hart & Hegeman Elec Co Bryant Electrical Co Cable Eelectric Products Inc Circle F Mfg Co Cutler Hammer Inc Eagle Electric Mig Co General Electric Co Constr Materials General Electric Co Wiring Device Dept Hubbell Harvey Inc International Register Co Jerrold Electronics Corp Keystone Mfg Co Leviton Mfg Co Inc Murray Mfg Corp Pass & Seymour Inc Rodale Mfg Co Inc Superior Electric Co Swivelier Co Inc Touch Plate Mfg Corp Union Insulating Co Wakefield Co. Westinghouse Electric Corp

Wiring Devices, TV & FM Blonder-Tongue Laboratories Inc Mosley Electronics Inc

Wiring, Electrical, Multi Outlet
Bryant Electrical Co
Cable Electric Products Inc
Circle Wire & Cable Cfrp
General Electric Co Wiring Device Dept
Kaiser Aluminum & Chemical Corp
Merwin Mfg Co
Wakefield Co
Wiremold Co

Wiring Systems, Remote Control
Bryant Electrical Co
General Electric Co Constr Materials
General Electric Co Wiring Device Dept
Remon Div Pyramid Instrument Corp
Superior Electric Co
Touch Plate Mfg Corp
Wakefield Co

Wood (See Lumber)

MANUFACTURERS DIRECTORY

The full name and address of every manufacturer in the product and brand name sections appears here. For more information on a product, write directly to the company listed.

& A Register Co 8327 Clinton Rd Cleveland 9 Ohio

A A Wire Products Co 714 E 61 St Chicago Ill

A R B Window Sales Co 19433 John R St Detroit 3 Mich Abbeen Supply Co 179-15 Jamaica Ave Jamaica 32 NY

Aberdeen Plywood & Veneers Inc Harbor Plywood Div PO Box 1036 Aberdeen Wash

Abeste Mfg Co 131 Wabash St Michigan City Ind

Abitibi Cerp \$56 Penobscot Bldg Detroit 26 Mich

Accountants' Supply House 518 Rockaway Ave Valley Stream NY

Ackerman Johnson Co 625 W Jackson Chicago 6 Ill

Acme Appliance Mfg Co Acme Builders Hardware Div 200 E Railroad Ave Mon-rovia Cal

rovia Cai Acme Brick Co PO Box 425 Ft Worth Tex Acme Engineering & Mfg Corp Box 1203 Muskogee Okla Acme Industries Inc 600 N Mechanic St Jackson Mich

Acme National Refrigeration Co Inc 19-26

Hazen Astoria Long Island City NY
Acme-Newport Steel Co 9th & Lowell
Sts Newport Ky
Acme Shale Brick Co Inc 1153 Main St
Buffalo 9 NY

Buffalo 9 NY
Acorn Mfg Co Mansfield Mass
Acrow Corp of America 231 Washington
Ave Carlstadt NJ
Active Tool & Mfg Co 888 Clairpointe
Ave Detroit 15 Mich
Adam Frank Electric Co 3651 Windsor
Pl St Louis Mo

Pl St Louis Mo
Adams Bros Mfg Co Inc 1500 North Ave
W Pittsburgh 33 Pa
Adams Ce PO Box 268 Dubuque Iewa
Adjusta Pest Mfg Ce 908 8 Clair & Bowery Akron 7 Ohio
Admiral Cerp 3800 W Cortland Chicago

47 III Ador Corp 2345 W Commonwealth Ful-

lerton Cal

Roosevelt Rd Chicago 8 Ill
Aerometer Div Motor Products Corp 2500
Roosevelt Rd Chicago 8 Ill
Aeronca Mfg Co Metal Products Div Middletown Ohio

Afco Corp Box 5085 Lee & Roy Alex-mdria La Air Controls Inc 2310 Superior Ave Cleveland 14 Ohio

Air Devices Inc 185 Madison Ave New York 16 NY Air O-Cel PO Box 62 Ferndale Detroit

Airolite Co Westview Ave Marietta Ohio Air Placement Equipment Co 1009 11 W 24 St Kansas City 8 Mo

Airtemp Div Chrysler Corp 1600 Webster St Dayton 1 Ohio

Air-Tite Products Inc PO Box 902 South Bend Ind Air Vue Products Corp 5101 N W 37th

Ave Miami 42 Fla

Ajax Hardware Corp 825 S Ajax Ave PO Box 2227 City of Industry LA County Akron Products Co Seville Ohio

Alabama Metal Lath Co Inc PO Box 992 Birmingham 1 Ala

Alabama Oak Flooring Co Guin Ala Alabama Wire Co Inc PO Box 648 FlorAlamark Inc PO Box 216 Sharonville

Alamark Inc. PO Box 210 Claim Albartson & Co Inc 2801-2899 Floyd Blvd Sioux City 2 Iowa Albien Div McGraw-Edison Co 704 N Clark St Albion Mich

Albritton Engineering Corp PO Box 31

Aldrich Co 111 Williams St Wyoming Ill All Metal Partition Co Inc 204 DuPont St Brooklyn 22 NY

Allegheny Ludium Steel Co Oliver Bldg Pittsburgh 22 Pa

Pittsburgh 22 Pa
Alliance Mfg Co Inc Alliance Ohio
Allianceware Inc Box 809 Alliance Ohio
Alliad Chemical Corp Barrett Div 40
Rector St New York 6 NY
Allied Compositions Co Inc 56-25 Flushing Ave Maspeth 78 NY
Allied Fegry Business Systems 429 E Monument Dayton 2 Ohio
Allied Proteins Advantage 455

Allied Precision Indus Inc 425 Stevens St Geneva III

Allis Chalmers Mfg Construction Machin-ery Div 1126 S 70th St Milwaukee 1

Allister Mfg Co Inc Exton Pa Allith-Prouty Inc 819 N Bowman Ave Danville Ill

Allmetal Weatherstrip Co 1911 Ridge Ave Alloy Tile Corp 109 Roosevelt Ave Belle-ville NJ

Aloha Lumber Corp Aloha Wash Alpha Portland Cement Co Alpha Bldg

Alsce Inc 225 S Forge Box 270 Akron 8

Ohio
Alside Inc 3773 Akron-Cleveland Rd PO
Box 1261 Akron 9 Ohio
Alsto Co 4007 Detroit Ave Cleveland Ohio
Alsynite Div of Reichhold Chemicals Inc
4654 De Soto St San Diego 9 Cal
Alumatic Corp of America 2081 S 56th St
Milwaukee 19 Wisc

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa Aluminum & Glass Products Co 1901 Franklin Ave Houston Tex Aluminum Industries 716 E Nash Mil-waukee Wisc

waukee Wisc Alvey Fergusen Co Inc North & Disney Cincinnati 9 Ohio Amana Refrigeration Inc Amana Iowa Ambassa Dor Co Malvern Pa Ambroid Co Box 30 Weymouth 88 Mass Amcrete Corp 102 Mamaroneck Ave mcrete Corp 16 Mamaruneck NY

American Abrasive Metals Co 460 Colt St Irvington 11 NJ

American Accordion-Fold Doors Inc 171-04-06 Jamaica Ave Jamaica 32 NY

04-06 Jamaica Ave Jamaica 32 NY American Air Filter Co 215 Central Ave Louisville 8 Ky American Art Metals Co 433 Highland Ave NE Atlanta Ga American Asbestos Product Co 600 Franklin Bivd Cleveland Ohio American Biltrite Rubber Co Perrine Ave

Trenton 2 NJ

American Bitumuis & Asphalt Co 220 Market St San Francisco 20 Cal American Builder Book Service Dept 30 Church St New York NY

Church St New York NY
American Conveyor Co 2133 S Christiana
Chicago 23 Ill
American Coolair Corp 3604 Mayflower
St Jacksonville 3 Fla
American Dua-Lap Div of Triton Co 122
E 42nd St New York 17 NY
American Engineering Co Div of United
Industrial Corp Wheatsheaf Lane &

Sepviva St Philadelphia 37 Pa American Flexible Conduit Co 969 Shaw-mut Ave New Bedford Mass

merican Flour Machine Co 5185 St Clair St Toledo 3 Ohio

St Toledo 3 Ohio
American Furnace Co 1300 Hampton Ave
St Louis 10 Mo
American Holst & Derrick Co 63 S Robert St St Paul 7 Minn
American Inclnerator Corp 5710 E Navada St Detroit 34 Mich
American Louver Co 5308 N Elston Ave
Chicago 30 Ill
American Mat Corp 2330 Adams St Toledo 2 Ohio

ledo 2 Ohio American Olean Tile Co 1000 Canhon

American Olean The Co 1000 Cannon Ave Lansdale Pa American Photocopy Equipment Co 2100 W Dempster Evanston Ill American-Saint Gobain Corp One Rocke-feller Plaza New York 22 NY American Screen Products Co Chatsworth TII

American Shewer Deer Co Inc 936 N Cahuenga Blvd Hollywood 38 Cal American Sisalkraft Corp 55 Starkey Ave

American Sta-Dri Co 4102 41st St Brent-wood Md

American Standard Air Conditioning Div 40 West 40th St New York NY American Standard Industrial Div 8111 Tireman Detroit 32 Mich

American-Standard Plumbing & Heating Div 40 W 40 th St New York 18 NY American Steel Door Co 15500 E 12 Mile

Rd Roseville Mich American Steel & Wire Div US Steel Corp 614 Superior Ave NW Cleveland 13 Ohio

13 Ohio
American Telephone & Telegraph Co 195
Broadway New York 7 NY
American Varnish Co 1134 N North
Branch St Chicago 22 III
American Vitrified Prods Co 700 National
City Bank Bldg Cleveland 14 Ohio
American Woodworking Machinery Co
100 Liberty St Hackettstown NJ

Amerock Corp 4000 Auburn St Rockford TII

Amiden Engineering Co 38369 Cleveland Rd Elyria Ohio Amsterdam Corp 285 Madison Ave New York 17 NY

Ampere Industries 60 Boston St Newark 3 NJ

Amweld Building Products Div American Welding & Mfg Co 100 Plant St Niles

Ohio
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn
Anaconda Wire & Cable Co 25 Broadway
New York 4 NY
Anchor Fence Div Anchor Post Prods
Inc 6509 Eastern Ave Baltimore 24 Md

Andersen Corp Bayport Minn Andrec Chemical Co 7301 W Lake St

Minneapolis Minn Anesite Ce 3575 Touhy Chicago 45 Ill Angel Co 340 Broad St Fitchburg Mass Angelina Hardwood Sales Co 1312 Wilson St Lufkin Tex

Angell Nail & Chaplet Co 4580 E 71 St Cleveland Ohio

Anoroc Products Inc 181-14 Jamaica Ave Jamaica 23 NY Anson & Gilkey Co South Sales St Merrill

Anti Hydro Waterproofing Co 265 Badger Ave Newark 8 NJ

Appleton Coated Paper Co 825 E Wisconsin Ave Appleton Wisc

20 Mich

Areadia Metal Products 801 South Acacia Ave Fullerton Cal Arcata Plywood Corp PO Box 427 Arcata

Cal Areata Redwood Co PO Box 218 Areata

Cal Architectural Plan Service Inc 89-51 164th St Jamaica 3 NY

Area Co 7301 Bessemer Cleveland 27 Ohio Arkansas Oak Flooring Co 2200 W Fifth Ave Pine Bluff Ark Arketex Ceramic Corp 6 N Walnut St Brazil Ind

Air Conditioning Corp 812 Main St

Little Rock Ark

Armee Drainage & Metal Products 703

Curtis St Middletown Ohio Armstrong Cork Co Liberty St Lancaster

Pa
Armstrong Furn Co Div Nati U E 851 W
Third Ave Columbus 8 Ohio
Armstrong Products Corp PO Box 940
Huntington 12 W Va
Arnold Altex Aluminum Co 6721 NW 36th
Ave Miami 47 Fia
Arps Corp New Holstein Wisc
Arro Expansion Bolt Co PO Box 388
Marion Ohio
Arrow Fastener Co Inc. 1 Junius St

Fastener Co Inc 1 Junius St Brooklyn NY

Arrow Hart & Hegeman Elec Co 163 Hawthorn St Hartford 6 Conn Arrow Tank Co Inc 16 Barnett St Buf-falo 15 NY falo 15 NY Art Metal Co 1814 E 40 St Cleveland Ohio

Arterest Products Co Inc 255 W 79 St Chicago Ill Arvey Corp 3462 N Kimball Ave Chicago 18 Ill

18 III
Arvin Industries Inc Columbus Ind
Ash Grove Lime & Portland Cement Co
1105 Fairfax Bidg Kansas City Mo
Asphalt Corp of America Calif & Daniel
Sts Danville III

Associated Plan Services Inc 384 New York Ave Huntington NY Associated Plumbing Supply Co Inc 10 St Baerfield Fort Wayne Ind Atco Ceramics Corp 101 Park Ave New

Athens Stove Works Inc 213 Hicks St Athens Tenn

Atkins Saw Div Borg-Warner Greenville

Atkins Wood Products Corp 103-12 101 St Ozone Park NY

Atkinson Mfg Co 502-14 S James Lud-ington Mich

Atlanta Oak Flooring Co Box 942 At-lanta Ga

Atlas Electric Preds Co 324 Maujer St Brooklyn 6 NY

Atlas Floor Surfacing Machinery Corp 268 East 34th St New York 16 NY Atlas Overhead Door Co 122 Mill St

Quakertown Pa Atlas Press Co 1901 N Pitcher St Kalamazoo Mich

Aubrey Hardware Mfg Inc Union Ill Auer Register Co 6600 Clement Ave Cleveland 5 Ohio

Aurera Pump Div New York Air Brake Ce Loucks at Dearborn Aurora III Austin & Eddy Inc 115 Broad St Boston 4 Mass

Auth Electric Co Inc 34-20 45th St Long Island City 1 NY

Autographic Business Forms Inc 45 E Wesley St South Hackensack NJ

Automatic Transportation Co 181 W 87

St Chicago 20 III

Automation Fastening Co Inc 1220 W

Ninth St Cleveland 13 Ohio Auto-Nailer Co 267 Marietta St Atlanta

Award Pools 7765 Lemona Ave Van Nuys Cal

Axford Prairie Shake Co Rt 1 Box 120 Hoquiam Wash

Azrock Floor Products Div Uvalde Bock Asphalt Co Box 531 San Antonio Tex

B & T Metals Co 425 W Town St Columbus 16 Ohio

Babcock W W Co Inc Delaware Ave Bath

Badger Div The Warner & Swasey Co Baldwin-Ehret-Hill Inc 500 Breunig Ave

Trenton 2 NJ Baldwin Hardware Mfg Corp 841 Wyo-missing Blvd Reading Pa Ballymore Co Lincoln & Garfield West

Chester Pa Baltz Robert N & Co Inc 1009 Harvard Terrace Evanston 1 Ill

Bangkok Industries Inc 1545 W Passyunk Ave Philadelphia 45 Pa Barber Colman Co Overdoors & Opera-tors Div Park Plant Rockford III

Barber Greene Co 400 N Highland Aurora

Bar-Breek Mfg Co PO Box 6638 Shreve-

Barclay Mfg Co Inc 385 Gerard Ave New York 51 NY Barco Mfg Co 500 N Hough St Barrington

Bard Mfg Co Bryan Ohio Barkow Aug G Mfg Co Inc 2230 S 43 St Milwaukee 46 Wisc

Barnes Mfg Co 651 N Main St Mansfield

Barnhardt Mfg Co PO Box 2176 Char-

Barnhardt Mig lotte 1 NC Barreled Sunlight Paint Co Dept 19 PO Box 1365 Providence 1 RI Barrett Cravens Co 630 Dundee Rd

Bastian-Moriey Co Inc LaPorte Ind Bauer Mfg Co Bowman St Wooster Ohio Baumgartner Gate Factory S Fifth St Manchester Iowa

Baxter J H & Co 120 Montgomery St San Francisco Cal

Bay State Abrasive Products Co Union St Westboro Mass
Bayley William Co 1200 Warder St Springfield Ohio

Beach Mfg Co Mill & High Sts Montrose

Beadex Mfg Inc 4615 Eighth Ave NW, Seattle 7 Wash Beauti-Dor Inc 4723 N Pulaski Rd Chicago 30 Ill

eautycraft Kitchens Div Miller Metal Products Inc 2215 Russell St Baltimore 30 Md

Beaver Advance Corp PO Box 792 Ell-wood City Pa Behr-Manning Co Dept 6132 Troy NY Behr Process Corp 1603 Talbert Ave Santa

Belden Brick Co Canton 1 Ohio
Bell & Gossett Co 8200 N Austin Morton Grove III

Belikoel Co Inc 531 N Eighth St Milwau-kee Wisc

Belsaw Machinery Co 315 Westport Rd Kansas City 11 Mo Belson Mig Co East River Rd N Aurora

Belwood Industries Inc Ackerman Miss

Bellwood Co 533 West Collins Orange Cal Bemis Mfg Co 304 Broadway Sheboygan Falls Wise

Bendix Mouldings Inc 192 Lexington Ave New York 16 NY Benjamin Div Thomas Industries Inc 207

E Broadway Louisville Ky Bennett-Ireland Inc 1151 Market St Norwich NY

Bennett Mfg Co Railroad St Alden NY Berg F O Co N 318 Division St Spokane

Berg John Mfg Co 5319 S LaSalle St Chicago 9 Ill Berger C L & Sons 37 William St Bos-

ton Mass Berger Insulation Co Inc 5920 Centre Ave Pittsburgh 6 Pa

Berkeley Aluminum Products Div of Allied Metals Inc 14 Hamilton St New London Conn

Berko Electric Mfg Corp 182-20 Liberty Ave Jamaica 12 NY

Berns Air King Corp 3050 N Rockwell St Chicago 18 Ill

Berry Door Corp 2400 E Lincoln Rd Bir-mingham Mich Bessler Disappearing Stairway 1900 E Market St Akron 5 Ohio

Bestwall Gypsum Co 120 E Lancaster Ave Ardmore Pa

Bestwood Cedar Shingle Co Ltd Box 2042 Vancouver 3 BC Bethlehem Steel Co Bethlehem Pa

Better-Bilt Door Co 950 Harbor Rd Egg

Harbor City NJ Better Homes and Gardens 1716 Locust St Des Moines 3 Iowa Bi-Products Corp 219 N York Rd Hatboro

Bica Co 1170 N State St Girard Ohio Biddle Co Breckenridge Industrial Court St Louis 17 Mo Biersach & Neidermeyer Co 1957 N Hub-

Biersech & Neisermeyer Co 1957 N Hub-bard St Milwaukee Wisc Bigelow-Sanford Inc 140 Madison Ave New York NY Bilco Co 37 Water St West Haven Conn Bil-Jax Inc 160 Wyse Rd Archbold Ohio Bilthest Corp 175 Coyne St Ste Genevieve

Binswander Glass Co PO Box 3051 Houston 1 Tex

Bird & Son Inc East Walpole Mass Birdair Structures Inc 1800 Broadway Buffalo 12 NY

Buffalo 12 NY
Birge Co Ine 390 Niagara St Buffalo 1 NY
Birmingham Plywood Sales Co PO Box
138 Birmingham Mich
Black Hills Clay Products Co Box 730
Belle Fourche SD
Black & Decker Mfg Co 600 E Pennsylvania Towson 4 Md

lackstone Corp 1032-88 Allen St James-town NY

Bliss Steel Prods Corp 617 W Manlius St E Syracuse NY

Blonder-Tongue Laboratories Inc 9 Alling St Newark 2 NJ

Bloomington Limestone Corp 900 Walnut Box 44 Bloomington Ind Blum Julius & Co Inc Carlstadt NJ

Bodinson Mfg Co 149 S Airport Blvd South San Francisco Cal Boice Crane Co 930 W Central Ave To-

ledo 6 Ohio Boise Cascade Corp Box 2207 315 E Jack-son St Spokane 7 Wash

Borden Chemical Co Div Borden Co 350 Madison Ave New York 17 NY

Borg-Warner Corp Ingersoll Humphryes Div 201 East Fifth St Mansfield Ohio Borg-Warner Corp Pesco Products Div 24700 N Miles Rd Bedford Ohio

Bero Wood Prods Co Inc PO Box 636 Bennettsville SC

Bostitch E Greenwich RI

Besten Lightning Rod Co Dedham Mass Bestrom-Brady Mfg Co 526 Stonewall St SW Atlanta 3 Ga

Bostwick Steel Lath Co 1890 Griswold Dr Niles Ohio Bosworth Mfg Co 34250 Mills Rd Avon

Bowerston Shale Co Box 155 Bowerston Ohio Bradley Southern Div Potlatch Forests Inc PO Box 390 Warren Ark

Brammer Mfg Co 1441 Rockingham Rd Davenport Iowa Briar Hill Stone Co Glenmont Ohio

Bridgeport Brass Co Hunter Douglas Div 30 Grand St Bridgeport 2 Conn Bridgeport Hardware Mfg Corp Scofield Ave Bridgeport 5 Conn

Briggs Manufacturing Co 6000 E 15 Mile Warren Mich

Brikerete Associates Inc Holland Mich Brixite Mfg Co Inc S Kearny NJ Broan Mfg Co Inc 926 W State St Hart-ford Wisc

Brookhaven Pressed Brick Mfg Co Brookhaven Miss

Brookings Plywood Corp PO Box 1008 Brookings Ore

Brooks-Scanion Inc Box 1111 Bend Ore Brown Co 150 Causeway St Boston 14 Mass

Brown George C & Co Inc 1730 W Lee St Greensboro NC

Brewn & Grist Inc 25 Tyler Ave Newport Brown Prods Co 1090 Springfield Union

Brown Stove Works Inc PO Box 495

Cleveland Tenn Brown W R Corp 2701 N Normandy Ave Chicago 35 III

Bruce E L Co 1648 Thomas Box 397 Memphis 1 Tenn

Brule Incinerator Corp 13920 S Western Ave Blue Island III

Bryant Electrical Co 1421 State St Bridgeport 2 Conn Bryant Manufacturing Co 2020 Montcalm St Indianapolis Ind

Bucyrus-Erie Co S Milwaukee Wisc Buffalo Forge Co 490 Broadway Buffalo 4 NY

Buffalo Walleraft Co Inc PO Box 54 Buffalo 7 NY Builders Brick Co 3800 Ninth Ave S Seat-tle 8 Wash

Builders Fireplace & Supply 2804 Link

Rd Houston Tex RG HOUSIGH FER Bulldog Div Gregory Industries Inc Toledo Ave & E 28 St Lorain Ohio Bulldog Electric Products Div I-T-E Cir-cuit Breaker Co 7610 Joseph Campau

Detroit 11 Mich Burgess-Manning Co 749 E Park Lib-

ertyville III

ertyville III
Burgess Vibrocrafters Inc Grayslake III
Burnham Corp Heating & Cooling Div
Irvington NY
Burnham Corp Warm Air & Cooling Div
Fourth & Main Sts Belle Vernon Pa
Burr-Seuthern Div State Steel Industries
Inc 17900 E Valley Bivd PO Box F1
City of Industry Cal
Burroughs Corp 6071 Second Bivd Detroit 32 Mich
Burt Mfg Co 44 E South St Akron 11

Burt Mfg Co 44 E South St Akron 11

Buschman E W Co Inc 4481 Clifton at

Buss Machine Works Inc Eighth & Eldon Sta Holland Mich Butcher & Hart Mfg Co 4601 Cortland Ave Altoona Pa Butler Mfg Co 7400 E 13 St Kansas City

Byers A M Co Clark Bldg Pittsburgh Pa

C & H Air Conditioning Co Inc 1591-1623 DeKalb Atlanta Ga C H & E Manufacturing Co 3849 N Pal-iner St Milwaukee 12 Wisc C & H Electric Machine Co 436 W Ju-neau Ave Milwaukee 3 Wisc Cable Electric Products Inc 234 Daboll St Providence H

St Providence RI

nt Providence RI
Cabot Samuel Inc 1144 Oliver Bldg Bos-ton 10 Mass
Cal Vent Mfg Co 1032 Gerhart Ave Los Angeles 22 Cal
Calbar Inc 2626 N Martha St Philadel-

albar Inc 2 phia 25 Pa ac 2626 N Martha St Philadel-

Calcinator Corp 28 & Water Sts Bay City Mich

Calder Mfg Co Box 1558 Lancaster 12 Pa Caldwell Mfg Co 68 Commercial St Rochester 14 NY

California Car Wash Systems Inc 7265 Radford Ave North Hollywood Cal

Caloric Appliance Corp Topton Pa Cambridge Tile Mfg Co Box 71 Cincin-nati 15 Ohio

Camp Ce Inc 9300 S Sangamon St Chi-cago 20 III

Campbell Mfg Ce Inc Front & Washington Sts Boyertown Pa
Canadian Forest Preds Ltd HunttingMerritt Shingle Div 9110 Milton St
Vancouver 14 BC

Cannelton Sewer Pipe Co Fourth & Washington Sts Cannelton Ind Cannon Electric Co 2208 Humboldt St Los Angeles Cal

Cape Cod Cupela Co N Dartmouth Mass Capilano Timber Co Ltd Box 2230 Van-couver BC

Capitol Products Inc 1839 S Main Jacksonville III

Capitol Products Corp Carlisle Pike Me-chanicsburg Pa

Capri Mfg Inc 2021 N Lincoln Burbank Cal

Capri Sales Inc 217 N Lake St Burbank Cal

Caradee Inc Eleventh & Jackson Du-buque Iowa

Carbolineum Wood Preserving Co 6683 N 40 St Milwaukee 9 Wisc Carborundum Co PO Box 337 Niagara Falls NY

Carey-McFall Ce 2156 E Dauphin St Philadelphia 25 Pa

Carey Philip Mfg Co 320 S Wayne Cin-cinnati 15 Ohio

Carlon Products Corp PO Box 133 Au-rora Ohio rora Unio
Carlyle Tile Ce Box 123 Ironton Ohio
Carney Ce Inc PO Box 23 Mankato Minn
Carpenter Oak Flooring Ce 996 N 46 Box
3173 Birmingham Ala
Carrier Cerp Carrier Parkway Syracuse
1 NY

Carrollton Mfg Co Sink Div Carrollton

Carter-Waters Corp 2440 W Pennway Kansas City Mo Carthage Marble Corp Box 612 Carthage

Cascade Lumber Co Div of Bolse-Cascade Corp N Seventh & H Sts Yakima Wash Cascade Pools Corp Talmadge Rd Edison NJ

Cascades Plywood Corp 1316 Public Serv ice Bldg Portland 4 Ore

Case J I Co 700 State St Racine Wisc Case Mfg Div of Ogden Corp 1000 W Pine St Robinson III

Fine at Modifison III
Casings Inc & Drywall Trim Div 2408 N
Farwell Ave Milwaukee 14 Wisc
Caterpillar Tractor Ce Peoria III
Cavaller Corp 341 W First St Chattanooga

Ceco Steel Prods Corp 5601 W 26 St Chicago 58 Ill

Cedar Supply Co Humptulips Wash Cedarwood Timber Co Box 105 Vernonia Ore

Celheat Inc 3 Maiden St Natick Mass Celotex Corp 120 S LaSaile St Chicago 3 TII

Cemex of Arizona 8949 Sunset Blvd Los Angeles 46 Cal Cenatron Industries 5464 Rt 99 S Fresno Cal

Central Foundry Co 932 Broadway New York 10 NY entral Metal Strip Co 4343 N Western Ave Chicago 18 Ill eresit Corp 3227 S Shields Ave Chicago

16 III

Cernak Tile Co Inc 4901 Brookpark Rd Cleveland 29 Ohio Certain-Teed Products Corp 120 E Lan-caster Ave Ardmore Pa

caster Ave Ardmore Pa Chain Belt Co 4689 W Greenfield Ave Milwaukee 1 Wisc Challenger Lock Co 2349 W La Palma Anaheim Cal

Chamberlin Co of America 745 Fifth Ave New York 22 NY Chambers Built-ins Inc 2012 N Harlem

Chambers Built-ins Inc 2012 N Harlem Ave Chicago 35 III Champion Dearment Teel Co 1306-16 Main St Meadville 1 Pa Champion Door Co Inc 7106 Pomander Lane Chevy Chase 15 Md Charleston Clay Prods Co PO Box 349 Charleston 22 W Va

hase Brass & Copper Inc 236 Grand St Waterbury 20 Conn

Chattaneoga Reyal Co First & Delmar Sts Chattaneoga 6 Tenn Chattanooga 6 Tenn Chelsee Elevator Co 549-551 W 52 St New York 19 NY

Chelsea Fan & Blower Co Inc 630 S Ave Plainfield NJ

Plainfield NJ
Chemical Products Div Darworth Inc 56
Maple St Simsbury Conn
Chemold Co 2000 Colorado Ave Santa
Monica Cal
Cherokee Brick & Tile Co PO Box 58
Macon Ga
Chester

Macon Ga
Chester Products Inc Belle Ave & B&ORR Hamilton Ohio
Chevrelet Meter Div Gen Meters Gen
Motors Bidg Detroit 2 Mich
Calcago Blower Corp 9857 Pacific Ave
Franklin Park III

Franklin Park III Chicago Bronze & Color Works 2637 W Grand Ave Chicago 12 III Chicago Expansion Belt Co 1338 W Con-cord Pi Chicago 22 III Chicago Faucet Co 2700 22 N Pulaski Chicago 39 III

Chicago Metal Strip Co 4521 N Clark St Chicago 40 Ill

Chicago Pneumatic Tool Co Six E 44 St New York 17 NY Chicago Pottery Co 1920 N Clybourn Chi-cago 14 Ill

Chicago Pump Co 622 Diversey Pkwy Chicago 14 Ill

Chicago Spring Hinge Co 1500-02 Carroll Ave Chicago 7 Ill

Chickamauga Cedar Co Inc Stevenson

Chicopee Mills Inc Lumite Div 47 Worth St New York 13 NY

St New York 13 NY Cincinnati Iron Fence Ce Inc 2101 Flor-ence Ave Cincinnati 6 Ohio Cincinnati Teol Ce 1946 Waverly Ave Cincinnati 12 Ohio Circle F Mfg Ce 720 Monmouth St Tren-

ton NJ Circle Wire & Cable Corp Sub of Cerro De Pasce Corp 5500 Maspeth Ave Mas-peth NY

ty Chemical Corp 132 22nd St New York 11 NY Clarage Fan Co One Clarage Place Kala-

Clarage Fan Co One Carage Fan mazoo Mich Clark Deer Co Inc 515 Hunterdon St Newark 8 NJ Clark Equipment Co Construction Ma-chinery Div Box 599 Benton Harbor chinery

Mich Clark Equipment Co Industrial Truck Div 24th St & Lafayette Battle Creek Mich Clark J B Co Spring Park Minn Clarke Floor Machine Co Div of Stude-baker-Packard Corp 30 E Clay Ave

Muskegon Mich Clay City Pipe Co Lock Drawer 272 Uhrichsville Ohio

Clay Equipment Corp Cedar Falls Iowa Clayton Mark & Co 1900 Dempster St Evanston III Cleveland Heater Co 2310 Superior Ave

Cleveland 14 Ohio
Cleveland Steel Specialty Co 3779 E 91
St Cleveland 5 Ohio
Cleveland Trencher Ce 20100 St Clair Ave
Cleveland 17 Ohio

Cleveland 17 Onto
Cleveland Wash Tray Mfg Co 1250 W 65
St Cleveland 2 Ohio
Clinton Metallic Paint Co Arthur St
Clinton NY
Clipper Mfg Co 2800 Warwick Kansas
Clty Mo

City Mo
Clopay Corp Clopay Square Cincinnati
14 Ohio
Cloud Oak Flooring Co 1916 N Weller
Springfield Mo
Clyde Iron Works Inc 29th Ave & W
Mich Duluth 1 Minn
Coddington E D Mfg Co 5024 N 37 St
Milwaukee 9 Wisc
Coffing Hoist Div Duff-Norion 100 Pioneer Ave Charlotte NC
Coffman R G Co Inc PO Box 1113 Orlando Fia
Cole Mfg Co PO Box 2657 Memphis 2
Tenn

Cole Prods Corp PO Box 4182 Austin Tex Coleman Co Inc Second & St Francis Wichita 1 Kan nial Bronze Co Winsted Rd Torrington Conn

Colonial Fireplace Co 540 N Cicero Chi-cago 44 Ili olonial Moulding & Frame Co Inc 928 Broadway New York 10 NY

Colonial Poel Ce Inc 5816 N Lincoln Ave Chicago 25 Ill Celonial Products Ce Broad & Park Sts Colonial Products
Dallastown Pa

Colonna Angelo Inc Westmoreland & Boudinot Sts Philadelphia 34 Pa Colorado Fuel & Iron Corp Continental Oil Bidg Denver 2 Colo

Colorado Fuel & Iron Corp 575 Madison Ave New York 22 NY Colorado Metal Prod Corp 450 Kalamath 'St Denver Colo

olorcrete Industries Inc 500 W 24 St Holland 1 Mich

Coison Corp 7 S Dearborn Chicago III Columbia Brick Works 1320 S E Water Ave Portland 14 Ore

Columbia Geneva Steel Div US Steel 120 Montgomery St San Francisco Cal Columbia Machine Inc 107 Grand Blvd Vancouver Wash

Columbia Metal Box Co 260 E 143 St New York 51 NY

Columbia Mills Inc 368 S Warren St Syracuse 1 NY Columbia Southern Chem Corp 1 Gate-way Center Pittaburgh 22 Pa Columbus Coated Fabrics Corp E Seventh & Grant Aves Columbus 16 Ohio

Columbus Plastic Prods Inc 1625 W Mound St Columbus 23 Ohio

Comet Mfg Dtv Siegler Corp PO Box 2098-D Pasadena Cal

Com ommercial Sound Div Dukane Corp St Charles III

monwealth Lumber Corp Box 346 Murphy NC

Murphy NC
Concrete Weld Co G-5186 Coldwater Rd
Flint 6 Mich
Condensation Engineering Co 3511 W
Potomac Ave Chicago 51 Ill
Condon-King Co 1247 Rainier Ave Seattle

44 Wash Congoleum-Nairn Inc 195 Belgrove Dr Kearny NJ

Kearny NJ Connor Lumber & Land Co 231 Thomas St Wausau Wise Consolidated General Prod Inc PO Box 7425 Houston Tex

Consolidated Mach & Supply Co Ltd 2031 Santa Fe Ave Los Angeles 21 Cal Censoweld Corp 700 Hooker St Wisconsin Rapids Wisc

Construction Cost Institute Box 8788 University Denver 10 Colo Construction Machinery Co 420 Vinton

St Waterloo Iowa Contact Lumber Co 719 Corbett Bldg Portland 4 Ore

Portland & Ore Continental Aluminum Preds Co 1800 W Roscoe St Chicago 13 Ill Continental Can Co Conolite Dept 135 S LaSalle St Chicago Ill

Continental Pump Co 1027 S Vandeventer St Louis Mo

Continental Radiant Glass Heating 4 W 40th St New York 18 NY Continental Steel Corp 1109 S Main St

Kekomo Ind Contractors Trailer Co Williamstown

Mass Controls Co of America Heating & Air Conditioning Div 2450 N 32 St Milwau-

kee Wisc Ree Wisc Conver Steel & Wire Co 600 E 132 St New York 54 NY Cook A B Co Malvern Ark Cook F C & Co PO Box 6707 Towson 4

Cook Paint & Varnish Co 1412 Knox N Kansas City Mo Cookson Co 1525 Cortland Ave San Fran-

ciseo 10 Cal Copco Steel & Engineering Co Commod-

ity Products Div PO Box 6257 Detroit 34 Mich

Copperweld Steel Co Wire & Cable Div Glassport Pa Coppes Inc Nappanee Ind

Copymation Inc 5650 N Western Ave Chi-cago 45 Ill Corbin P & F Div American Hardware Corp 102 Washington St New Britain

Conn

Corona Mfg Corp 11300 Tuxford St Sun Valley Cal Corson G & W H Inc Plymouth Meeting

Corvallis Plywood PO Box 411 Corvallis

Cory Corp 3200 W Peterson Ave Chicago

Cox Arthur & Sons Inc 70 N Sycamore St Pasadena Cal Crab Orchard Stone Co Inc PO Box 238

Crossville Tenn

Craftsman Book Ce of America 11975 San Vicente Blyd Los Angeles 49 Cal Craftwood Products 94 Stephen St Belle-ville NJ

Crane Co Plumbing Heating & Air Con-ditioning Group PO Box 780 Johnstown Pa

Crawford Door Co 20263 Hoover Rd De-trolt 5 Mich

Cree-Dipt Co Inc 968 Oliver St N Tona-wanda NY

Cre-O-Tex Chemical Co 2670 Broad St Memphis 12 Tenn

Crestline Co 100 Thomas St Wausau Wisc Cremar Ce Susquehanna St Williamsport Pa

Crossett Lumber Co Crossett Ark Crossly Window Corp 7375 N W 35th Ave Miami Fla

Crown Aluminum Industries Corp 5820 Centre Ave Pittsburgh Pa

Crown Rubber Co 1615 Croghan St Fre-

mont Ohio Crewn Tile Corp PO Box 564 Maddillon

Ohio Crown Zellerbach Corp 343 Sansome St San Francisco 19 Cal

Cuckler Steel Span Co PO Box 346 Mon-ticello Iowa

Culligan Inc 1657 Shermer Ave Northbrook Ill

Cummins Fortable Tools Div John Oster Mfg Co 5055 N Lydell Ave Milwaukee 17 Wisc

Cupples Products Corp 2650 S Hanley Rd St Louis 17 Mo Curtis-Allbrite Lighting Inc 6135 W 65 St

Chicago III Curtis Companies Inc 1200 S Second Ave Clinton Iowa

Curtiss Wright Corp Curon Div 50 Rocke-feller Plaza New York NY Curtition Corp 12616 Chadron Ave Hawthorne Cal Cutier Hammer Inc 201 N 12 St Milwau-

kee 1 Wisc Cutier Metal Prods Co 1025 Line St Cam-den NJ

D

Dad & Lad Co PO Box 285 New Lenox

n Mfg Co 30 S Central Ave St Louis 5 Me

Damascus Steel Products Corp 2215 Kish-waukee St Rockford Ill Damp-Vent Co 210-17 St Box 203 Bettendorf Iowa

dorf lowa
Danbury Rubber Co Inc Shelter Rock Rd
Danbury Conn
Danuser Machine Co 500 E Third St
Fulton Mo
DAP Inc 5300 Huberville Ave Dayton

Ohio Daryl Products Corp 7240 N E Fourth Ave Miami Fla

Dasco Co Inc 1602 Thames St Baltimore 31 Md David White Instrument Div Realist Inc

Box 67 Menomonee Falls Wisc Davidson Enamel Products Inc 1100 E Kibby St Lima Ohio

Kibby St Lima Ohio
Day & Night Mfg Co 855 AnaheimFuente Rd La Puente Cal
Dayton Electric Mfg Co 126 S Oakley
Blvd Chicago III
Dayton Safety Ladder Co 2337 Gilbert
Ave Cincinnati 6 Ohio
Dayton Sure-Grip & Shore Co 504 Kercher St Miamisburg Ohio
Dearborn Glass Co 6600 S Harlem Ave
Bedford Park III
Dearborn Stoye Co 1700 W Commerce 24

Dearborn Stove Co 1700 W Commerce St Dallas Tex Decatur Fump Co 2750 Nelson Pk Rd Decatur III Decro-Wall Corp 21 Saw Mill River Rd

Yonkers NY Dee Clay Prod Co Inc Bloomingdale Ind Park Pine Industry Inc Deer Park Wash

Wash Deleo Appliance Div General Motors PO Box 230 Rochester 1 NY Delta Co 333 West 24 Pl Chicago Ill Delta Faucet Corp 12825 Ford Rd Dear-

born Mich

Deluxe Saw & Tool Co 510 E Main St Louisville Ky Del-Val Mfg Co 519 W Huntingdon St Philadelphia 33 Pa

Deming Co 563 Broadway Salem Ohio Dempster Mill Mfg Co 711 South Sixth St Beatrice Neb

Deniston Co 4856 S Western Ave Chicago 9 111 Dennis W J & Co 9148 King St Franklin

Park Ill Design Technics 4 E 52nd St New York

Designware Industries Inc 6536 Main St Designware industries inc 6356 Main St Minneapolis 21 Minn Desmond Bros Paint Co 1526 W 228 St Torrance Cal Desmond-Stephan Mfg Co 425 S Walnut

Urbana Ohio

DeSoto Hardware Flooring Co 977 Sledge Ave Memphis Tenn DeVac Inc 5901 Way apolis Minn 5901 Wayzata Blvd Minne-

Devilbiss Co 300 Phillips Ave Toledo 1

Ohio Devoe & Raynolds Co Inc PO Box 1863

Louisville Ky DeWalt Inc Fountain Ave Lancaster Pa Dewey & Almy Chemical Div W R Grace & Co 62 Whittemore Ave Cambridge 40

Mass lewey Portland Cement Co Div of American Marietta Co 4646 Roanoke Pkwy Kansas City 12 Mo Dewey

Dexter Lock Div Dexter Industries 1609
Madison S E Grand Rapids 2 Mich
Diamond Expansion Boit Co Inc 500
North Ave Garwood NJ
Diamond Lumber Co 323 Pittock Block
Portland Ore
Diamond T Motor Truck Co 4401 W 26
St Chicago 23 Ill
Dick A B Co 5700 W Touhy Chicago 48
Ill

m Diebold Inc 818 Mulberry Rd S E Canton 2 Ohio

Dierks Forests Inc 810 Whittington Ave Hot Springs Ark Dietz R E Co 225 Wilkinson St Syracuse

Dietzgen Eugene Co 2425 N Sheffield Chicago 14 Ill Dina-Pak Cerp PO Box 488 Irving Tex

Dipcraft Mfg Co 4830 Hatfield St Pitts-burgh 1 Pa

Disston Div H K Porter Co Inc Unruh & Milnor Sts Philadelphia 35 Pa Division Lead Co 7742 W 61 Pl Summit

Dixie Products Inc PO Box 475 Cleveland

Tenn
Dixie Raydiant Electric Heat Corp 66
11th St N E Atlanta 9 Ga
Dixon Joseph Crucible Co 167 Wayne St
Jersey City 3 NJ

Dodge Cork Co Inc Laurel & Manor Sts Lancaster Pa

Dodge Division 7900 Joseph Campau De-troit 31 Mich Dodge F W Corp 119 W 40 St New York

18 NY Donley Brothers Co 13910 Miles Ave Cleveland 5 Ohio Dooroscope Co 32 Union Square New York 3 NY

Door's Inc PO Box 66 115 N Lyman St Wadsworth Ohio Dormalux Co Inc 50 Mechanic Buffalo 2

NY Dormeyer Corp Kingsbury & Huron Sts Chicago Ill

Chicago III Dor-O-Matic Div Republic Industries Inc 7350 W Wilson Ave Chicago III Dorr-Oliver Inc Havemeyer Lane Stam-

ford Conn Desch Mfg Co Delaware County Thorn-

ton Pa
Detmar Industries Inc 502 Hanselman
Bldg Kalamazoo Mich

Douglas Crestlyn International Inc 3521 V St N E Washington 18 DC Douglas Fir Plywood Co PO Box 215 Coquille Ore

Douglas & Sturgess 615 Fifth Ave San Francisco Cal

Francisco Cal
Dover Corp Electric Elevator Div 5000
Brotherton Rd Cincinnati 9 Chio
Dover Corp Peerless Mfg Div 1400 West
Ormsby Ave Louisville 1 Ky
Dow Chemical Co 1000 Main St Midland Mich Dowagiac Steel Furnace Co 100 Beeson

St Dowagiac Mich Drain Plywood Co PO Box 98 Drain Ore Dravo Corp Neville Island Pittsburgh 25

Drayson-Hanson Div Nati US Radiator Corp 3301 Medford 5t Los Angeles 63 Cal Drott Mfg Corp 3126 S 27 St Milwaukee

15 Wisc Du-All Scaffold Bracket Co 383 S Third

Du-All Scartoid Bracket Co 383 S Third St Columbus 15 Ohio Dubuque Products Inc 310 Allen St Dy-ersville Iowa Ductless Hood Co Inc 608 Plandome Rd Manhasset NY

Dulaney Plywood Corp 1440 Common-wealth Blvd Louisville Ky

Dunham-Bush Inc 179 South St West Hartford 10 Conn Dunkirk Radiator Corp 85 Middle Rd

Dunkirk NY Dun & Bradstreet Inc 99 Church St New York 8 NY

Dunn W E Ce 415 W 23 St Holland Mich Due-Safety Ladder Corp 513 W Ninth Ave Oshkosh Wisc

DuPont de Nemours & Co Inc E I 1007 Market St Wilmington 98 Del

Durable Fir Lumber & Plywood Co Menlo Duraffex Co 3500 N W 52 St Miami Fla

Durall Products Co Rockville Md Durell Products Inc 3600 Airport Way Seattle 4 Wash Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn Duro Metal Products Co 2651 N Kildare Ave Chicago 39 III Duronso Bros Shake Mili 4426 Alice St Bellingham Wash

our O Wall Div Cedar Rapids Block Co 650 Tweifth Ave S W Cedar Rapids

Dwyer Products Corp Calumet & Holiday Michigan City Ind Dynion Water Systems Inc 6120 Binney

Omaha Nebr

E G Building Fasteners Corp 101 Park Ave New York 17 NY Eagle Electric Mfg Co 23-10 Bridge Plaza

S Long Island City NY
Eagle-Picher Co American Bldg Cincin-

nati 1 Ohio Eagle Rule Mfg Corp 505 Hunts Point Ave New York 59 NY Earle Hardware Mfg Co Box 363 Pittston

Eastern Products Corp 1601 Wicomico St

Baitimore 30 Md
Earth Equip Corp 1409 Santa Fe Los Angeles Cal
Easy Laundry Appliances Div Murray
Corp of America 919 N Michigan Ave
Chicago 11 III

somy Forms 4301 E 14 St Des Moines

Products Inc Polk Ave Hopkins

Edwards Co Inc Post Hill Rd Norwalk

Conn
Edwards Engineering Corp 101 Alexander
Ave Pompton Plains NJ
Efron Theodore Mig Co 7519 S Greenwood Ave Chicago 19 Ill
Eimeo Corp 654 S Fourth W St Salt Lake
City Utah

Ekce Products Co Ekco-Autoyre Div 1949 N Cicero Ave Chicago 39 Ili Ekstrom Carlson & Co 1417 Railroad Ave

Rockford III Vauxhall Rd Union NJ
Electra Mfg Co 2000 W Fulton Chicago

Electrend Products Corp Box 110 St Jo-

seph Mich Electro-Ray Mfg Co 8310 N E Hwy 99 Vancouver Wash Elecromode Div Commercial Controls PO Box 1052 Rochester NY Elgin Softener Corp 236 N Grove Ave

Elgin Ill Elgin III Elgin-Standard Brick Mfg Co Box 546 Elgin Tex Elisson Tool Co 6944 Pillsbury Ave Min-neapolis Minn Eljer Co 3 Gateway Center Pittsburgh 22

Elkay Mfg Co 2700 South 17th St Broad-

view III Mill Co 600 W Spokane St Seattle 4 Wash Elliott Industries Inc 143 Albany St

Cambridge 39 Mass Elliott Paint & Varnish Co 4523 Fifth Ave Chicago 24 Ill

Embassy Steel Prods Inc 890 Stanley Ave Brooklyn 8 NY Emco Cement Prods Inc Birdsboro Pa Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo

merson-Imperial Lighting Co Box 427 Latrobe Pa

Emerson-Pryne Co 140 N Towne Co Po-mona Cal Emerson Radio & Phone Corp 14 & Coles Sts Jersey City NJ

Empire Level Mfg Co 10930 W Potter Rd Milwaukee 13 Wisc Empire Stone Co PO Box 788 Blooming-

ton Ind Empire Stove Co 918 Freeburg Ave Belle-ville Ill

Empress Brick Co Inc PO Box 8005 San

Antonio 12 Tex Engineered Products Co 129 N Grand Traverse St Flint 3 Mich Epco Swimming Peel Co 463 W Wood-lawn St Philadelphia 44 Pa

Equipment Div Young Spring & Wire Corp 500 Lehmann Ave Bowling Green

Erdle Perforating Co Inc 171 York St Rochester NY Erie City Iron Works 1420 East Ave Erie

E/S Products Inc 642 Fayette Ave Mamaroneck NY Etting Window 324 Wooster Rd N Bar-

berton Ohio

Evantie Plastic Co Div of Evans Pipe Co Carrollton Ohio Evans Brick Co 23 Newport Ave Uhrichs-

Evans Pipe Co 23 Newport Ave Uhrichs-ville Ohio

Evans Products Co 13101 Eckles Rd Plym-Evans Products Co 209 Crees Bldg Cor-

vallis Ore
Evans Rule Co 400-416 Trumbull Elizabeth NJ

Evercrete Corp 424 W 42 St New York 18 NY

NY Evercady Briksaw Co 1104 Union Ave Kansas City Mo Evergreen States Forest Products 252 Broadway Tacoma Wash

Everite Pump & Mfg Co Inc W Roseville Rd Lancaster Pa Everwarm Inc 3000 Pleasant Ridge Rd

Everwarm inc 3000 Fleasant Ridge Rd Knoxville Tenn Exchange Sawmills Sales Co 928 Grand Ave Kansas City 6 Mo Executone Inc 415 Lexington Ave New York 17 NY

Extension Drawer Support Co 2319 W Washington Los Angeles 18 Cal E-Z Set Windows Inc Box 13096 San Diego Cal

EZ-Way Sales Inc Box 300 St Paul Park

Fabricon Co 743 N Snelling Ave St Paul 4 Minn

Fabrikona Inc East Taunton Mass Fabrow Mfg Inc 7208 Douglas Rd Toledo 13 Ohio

Fair D L Lumber Co Box 309 Louisville Miss

Miss
Fairbanks Morse & Co 600 S Michigan
Ave Chicago 5 Ill
Panon Electronic Industries Inc 439 Frelinghuysen Ave Newark 12 NJ
Farley & Loetscher Mig Co Seventh &
White Sts Dubuque Iowa
Farwell Metal Fabricating 111 Fairfield
Ave St Paul 7 Minn
Fasco Industries Inc 255 N Union St
Rochester 2 NY
Fastener Corp 3702 River Rd Franklin

Fastener Corp 3702 River Rd Franklin Park III

Fastway Fasteners Inc 1676 E 28 St Lo-rain Ohio thereck Inc 6331 Hollywood Blvd Los Angeles 28 Cal

Fedders Corp Lalor & Hancock Sts Tren-ton NJ Federal Boiler Co Inc Granite & West Sta Midland Park NJ

Federal Hardware Products Div of Federal Industries Inc 3456 N Washington Ave Minneapolis 12 Minn

Pederai Pacific Electric Co 50 Paris St Newark 1 NJ Penestra Inc 2250 E Grand Blvd Detroit 11 Mich

11 Mich
Perguson Harry J Co 141 West Ave Jenkintown Pa
Perro Corp Color Div 60 Greenway
Drive Pitaburgh 4 Pa
Piat Mozal Mig Co 9301 W Belmont Ave
Franklin Pk III
Piberebard Paper Prods Inc 475 Brannan
St San Francisco Cal
Piberesin Plastics Co Oconomowoc Wise
Filon Plastics Cop 333 N Van Ness Ave
Hawthorne Cal

Filon Plastics Corp 333 N Van Ness Ave Hawthorne Cal Findley F G Co 3033 W Pemberton Ave Milwaukee 45 Wisc Pinger Lakes Stone Co Inc Ellis Hollow Rd Box 401 Ithaca NY Firestone Synthetic Fibers Co 45 Rock-efeller Plaza New York 20 NY Firestone Tire & Rubber Co Porter Rd Pottstown Pa

Firpine Products Co PO Box 476 Oswego Ore

Ore

Fitzgerald M J Co 2815 W Vliet St Milwaukee Wisc

Fitzgibbons Boiler Co Inc 101 Park Ave
New York 17 NY

Flash Bridge Co 783 S Washington Ave Holland Mich

Fleet of America Inc 2015 Walden Ave Buffalo 25 NY

Fleming & Sons Inc 1120 E Clarendon Dallas 8 Tex Fletcher-Terry Co 437 South St Bristol

Flexicore Co Inc 1932 E Monument Ave Dayton 1 Ohio Flexrock Co 3601 Filbert St Philadelphia

Pa Flintkete Co Box 2218 Los Angeles Cal Flint & Walling Mig Co Inc 95 Oak St Kendaliville Ind Flintkete Co 30 Rockefeller Plaza New York 20 NY

Float-Away Door Co 1173 Zonolite Rd N E Atlanta 6 Ga Flush Wall Radio Co 1012 Cleveland St

Flush Walf Raulo Co 1012 Clevesard St Clearwater Fla Flynn Michael Mfg Co 18111 Railroad St City of Industry Cal Foley Mfg Co 3300 Fifth St NE Minne-apolis 18

apolis 18
Fellansbee Steel Corp Foliansbee W Va
Fend du Lac Stene Co Inc Hwy 175 S
Box 148 Fond du Lac Wisc

rbes Steel Corp Box 329 Cannonsburg

Ferce-Fle Inc PO Box 2442 Cleveland Ohio

Ford Motor Co Dearborn Mich Ford Motor Co Tractor & Implement Div 2500 E Maple Rd Birmingham Mich Fordyce Lumber Co Fordyce Ark Forest Fiber Products Co Box 68 A B

Fordyce Lumber Co Fordyce Ark
Forest Fiber Products Co Box 68 A B
Forest Grove Ore
Forks Shingle Co Inc Forks Wash
Form Co 1919 13th St Rockford Ill
Forman-Ford & Co 111 S Second St
Minneapolis Minn
Formetal Inc 109 W Water St Oak Harbox Obles.

bor Ohio ormica Corp 4611 Spring Grove Ave Cincinnati Ohio

Forsberg Mfg Co 125 Seaview Ave Bridgeport 1 Conn Fortex Industries Inc 101 Park Ave New York 17 NY

Forty-Eight Insulations Inc Thomas & Forty-Eight insulations inc Thomas & McGee Sts Aurora III
Fource Glass Co Union Natl Bank Bidg Clarksburg W Va
Francis H A & Co Inc 838 39th St Brooklyn 32 NY

Brooklyn 32 NY
Frantz Mfg Co 301 W Third St Sterling III
Freeman Doorjack Co 709 W Central
Ave Bentonville Ark
Frick-Gallagher Mfg Co Inc S Michigan
Ave Wellston Ohio
Frigidaire Div General Motors Corp 300

Taylor St Dayton 1 Ohio
Frost Forest Products Div Olin Mathieson Chemical Corp PO Box 1125

Shreveport La Fry Lloyd Roefing Co 5818 Archer Rd Summit III Paller H B Co 1150 Eustis St St Paul 8

Minn
Fuller W P & Co 301 Mission St San
Francisco Cal
Futton Cotton Mills 170 Boulevard S E
Atlanta Ga

Gaffers & Sattler Div of Utility Appli-ance Corp 8111 W Beverly Bivd Los Angeles 48 Cal allon Alisteel Body Co 605 S Market St Galion Ohio

Gailon Ohio Gailoway Lumber Co Clarksville Ark Gang Nail Sales Co Inc 7525 N W 37 Ave PO Box 47-836 Miami 47 Fla

Gar Wood Industries Inc Wayne Mich Gar-Bro Mig Co 2415 E Washington Bivd Los Angeles 21 Cal Gardner-Denver Co Front St Quincy Ill

Garlinghouse L F Co Inc Garlinghouse Bldg Topeka Kan Gates Mfg Co Inc 415 W 11 St Indian-

apolis Ind Gates & Sens Inc 80 S Galapago St Den-ver 23 Colo

ver 23 Colo Gee Vee Line Oaks Pa Galvatex Paint Div Synko Sales Corp 901 E Vermont Ave Anaheim Cal General Automatic Products Curp 2300 Sinclair Lane Baltimore 13 Md

General Bathroom Products Corp 1056 N Wood St Chicago 22 Ill General Bronse Corp Stewart Ave Gar-den City LI NY General Cable Corp 730 Third Ave New York 17 NY

General Chrome Inc Bridgman Mich General Clay Products Co 1445 W Good-ale Blvd Columbus 12 Ohio General Concrete Products Inc 15025 Ox-

nard Van Nuys Cal eneral Doors Corp Radcliffe & Monroe

General

Eristol Pa leneral Electric Co Air Conditioning Dept Troup Highway Tyler Tex eneral Electric Co Apparatus Sales 1 River Rd Schenectady 5 NY

General Electric Co Circuit Prot Devices 41 Woodford Ave Plainville Conn General Electric Co Construction Materials Sales Operation 1285 Boston Ave Bridgeport Conn

Bridgeport Conn
General Electric Co Laminated Products
Dept Coshocton Ohio
General Electric Co Major Appliance
Div Appliance Park Louisville 1 Ky
General Electric Co Wiring Device Dept
95 Hathaway St Providence 7 RI
General Engines Co Inc Route 130 Thorofare NJ General Gas Light Co Box 2008 Kalama-

zoo Mich

General Hardware Mfg Co Inc 80 White St New York 13 NY General Metalcraft Inc Olympia Div PO Box 57 Olympia Wash

General Plastics Corp 1400 N Washington Marion Ind

Marion Ind General Plywood Corp 3131 W Market Louisville 12 Ky General Portland Cement Co 111 W Mon-roe St Chicago 3 Ill General Products Co Box 661 Fredericks-

burg Va General Tire & Rubber Co Jeanette Pa General Tire & Rubber Co Building Ma-terials Div 1708 Englewood Ave Akron terial Ohio

Geneva Modern Kitchens 201 S Eighth St Geneva III Gensco Tools 1830 N Kostner Ave Chi-cago 39 III

Geo-Optic Co 149 Church St New York

Georgia Marbie Co Tate Ga Georgia Pacific Corp Equitable Bidg Portland 1 Ore Gering Plastics Div of Studebaker-Packard Corp N Seventh & Monroe Sta Kenliworth NJ

Kenilworth NJ
Gerber Plumbing Fixtures Corp 232 N
Clark St Chicago 1 III
Gerrard A J & Co 1950 Hawthorne Sq
Melrose Park III
Gerrarda A J & Co 400 E Touhy Blvd
Des Plaines III
Gerrard Barden III
Gerrard Barden III

Gerwin Industries Inc 214 Spring Michigan City Ind

Getman Brothers Box 71 South Haven Mich Getty H S & Co Inc 3348 N 10 St Phila-

delphia 40 Pa Gibson Refrigerator Sales Corp Sub of Hupp Corp 515-615 W Williams Green-ville Mich

ville Mich Gilbert & Barker Mfg Co Cold Springs Ave W Springfield Mass Gilbert & Bennett Mfg Co 600 Miller Ave

Georgetown Conn
Giles & Kendall PO Box 289 Huntsville

Ala Gilman Bres Ce 100 Main St Gilman Conn

Gilson Brothers Co Box 245 Fredonia Wisc Giustina Brothers Lumber Co Box 989

Eugene Ore Gladding McBean & Co 2901 Los Feliz

Blvd Los Angeles Cal Glasolier Co 307 Sixth St Braddock Pa Glass Shower Door Co Inc 105 W Wacker Chicago Ill

Glena Metal Products Corp 8915 West Chester Pike Kirklyn Upper Darby Pa Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio

Glide Windows Inc 7463 Varna Ave N Hollywood Cal Globe Paint Works Inc PO Box 28 Williamsport 5 Pa

Globe Roofing Products Co Inc 2207 Schrage Whiting Ind

Goder Joseph Incinerators 4241 N Honore St Chicago 13 Ill Goldblatt Tool Co 1942 Walnut St Kansas

City Mo Goldsmith Metal Lath Co 4501 Chickering Cincinnati Ohlo

oodall Rubber Co Inc 427 Whitehead Rd Trenton NJ

Trenton NJ
Goodman Lumber Div Calumet & Hecla
Inc Goodman Wisc
Goodrich B F Co Flooring Products 36
Nichols Ave Watertown 72 Mass
Goodrich B F Industrial Products Co
Marietta Ohio
Goodyear Tire & Rubber Co 1144 E Mar-

ket St Akron 16 Ohio Gordon Mfg Co Farmington Conn Gorman-Rupp Co 305 Bowman St Mans-field Ohio

Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind Goshen Sash & Door Co East Puri Goshen

Ind Goss J C Co 2941 E Jefferson Detroit 7

Goulds Pumps Inc 240 Fall St Seneca Falls NY Graham Door Co 6901 Carnegie Ave Cleveland 3 Ohio

Graham John H & Co Inc 105 Duane St New York 7 NY Granco Steel Prods Co 6506 Broadway

Grance Steel Prods Co 6506 Broadway St Louis Mo Grand Rapids Gypsum Co PO Box 74 Grand Rapids Mich Grand Rapids Hardware Co 500 Eleventh St NW Grand Rapids 2 Mich Grand Specialties Co 3101 W Grand Ave Chicago 22 III Granite City III Granite City Sieel Co 20th & State Sts Granite City III

Granite City III

Grant Pulley & Hardware Corp High St West Nyack NY Gray & Dudley Co 2300 Clifton Rd Nash-ville Tenn

ville Tenn
Graybeal C R & Sons PO Box 8 Roan
Mountain Tenn
Graystone Div of Boise Cascade Corp
134 Nickerson St Seattle 9 Wash
Great Lakes Carbon Corp Perlite Dept
612 S Flower Los Angeles 17 Cal
Great Northern Mig Corp 1056 N Wood
St Chicago 22 Ill
Grees A P Fire Brick Co 1108 E Breckenridge Mexico Mo

enridge Mexico Mo reenlee Tool Co 2136 Twelfth St Rock-Greenlee ford Ill Gregg & Son Inc 25 Crown St Nashua NH

Griffin Mfg Co 1515 Cherry St Erie Pa Griffin Wellpoint Corp 881 E 141 St New York NY

Griffith Lumber Co 1038 Sixth Ave Box 267 Huntington W Va Grillcraft Co 477 E Seventh St St Paul 1

Grinding & Polishing Mach Corp 2530 Winthrop Ave Indianapolis 5 Ind Grinnell Sash & Door Co Marion Ill Grissom-Rakestraw Lumber Co Burnside Kv

Grote Mfg Ce PO Box 766 Madison Ind Gustin-Bacen Mfg Ce 204 W 10 St Kan-sas City 5 Mo Gyro Brass Mfg Corp 51 Urban Ave West-bury LI NY

Gypsum Ceiling Jack Co PO Box 201 Cedar Rapids Iowa

H-C Products Co Box 68 Princeville III H & M Cabinet Service 802 E Fifth Auburn Ind

H-P Products Inc 510 W Broad St Louisville Ohio Habitant Fence Inc Bay City 18 Mich Hachmeister-Inc PO Box 357 Pittsburgh

30 Pa Hager C & Sons Hinge Mfg Co 139 Victor St St Louis 4 Mo

Hall Level & Mfg Works 1119 E Fourth St Austin Tex

Hall-Mack Co 1380 W Washington Los Angeles 7 Cal

Halstead & Mitchell Bessemer Bldg Pitts-burgh 22 Pa Hamilton Mfg Ce 1316 18th St Two Rivers

Hamlin Prods Inc PO Box 3703 1000 North St Little Rock Ark

Handy Things Mfg Co N Rowe St Ludington Mich Hanley Co 1 Gateway Center Pittsburgh

22 Pa nover Wire Cloth Div of Continental

Copper & Steel Industries Hanover Pa Hardel Mutual Plywood Corp PO Box 365 Olympia Wash

Olympia wash Hardware Products Inc 806-812 126th 5t Reading Pa Hardwick Stove Co 240 Edwards St Cleveland Tenn Hardwood Corp of America PO Box 1091 Asheville NC

Hardwood Products Corp PO Box 191 Neenah Wisc Harloc Products Corp 680 Campbell Ave

West Haven Conn arris L C Cedar Ltd Box 725 Abbots-ford BC

Harris Hardwood Co Inc Box 2320 Roa-noke Va

Harris Mfg 434 E Walnut St Johnson City Harrisville Brick Co PO Box 447 Ogden

Hart & Cooley Mfg Co 500 E Eighth St Holland Mich

Hartford Clamp Co 466 Park Ave E Hart-ford 8 Conn

Hartglass Co 1302 Expressway Drive To-ledo 8 Ohio Hartmeister Mfg Inc 350 Eleventh St Denver 4 Colo

Harvill Corp 6251 West Century Blvd Los Angeles 45 Cal Harvey Aluminum 19200 S Western Tor-rance Cal

Haskelite Mfg Div Evans Products Co 701 Ann Street N W Grand Rapids

Hassall John Inc PO Box 2157 Westbury NY

NY
Hassell & Parkes Inc Trout La
Hastings Aluminum Products Inc 429 S
Michigan Hastings Mich
Hasty-Bake Mfg Co Inc 6116 South Louis
Tulsa Okla

Hattlesburg Brick Works Hattlesburg

Hauserman E F Co 6800 Grant Ave Cleveland 5 Ohio Haven-Busch Co 3443 Chicago Dr SW Grandville Mich

Hawkeye Sales Co 109 Fifth St SW Cedar Rapids Iowa Haws Drinking Faucet Co Fourth & Page Sts Berkeley 10 Cal Hearthaire Conditioning Co 3126 Scar-borough Cleveland Ohio Heatmore Inc 651-5 Driggs Ave Brooklyn

11 NY edges M M Mfg Co Inc 700 E Main St

Chattanoga Tenn Hell-Quaker Corp 647 Thompson Lane Nashville 4 Tenn Hellig Bros Co N Ogontz St & PRR York

Heinemann Saw Corp 2617 Navarre Rd SW Canton 6 Ohio Heinley Mastercraft Products 2211 Mich-

igan Ave Santa Monica Cal Heller Tool Co Heller Dr Newcomers-town Ohio Heller W C & Co 1050 Bryant St Mont-pelier Ohio

Hendrick Mfg Co Dundaff St Carbondale Pa

dale Pa Henry Furance Co Medina Ohio Henry Mfg Co Inc 1700 N Clay St PO Box 521 Topeka Kan Henry W W Co 5731 Bickett St Hunting-ton Park Cal

Hercules Fastener Co 2720 N Clybourn Ave Chicago 14 Ill Hercules-Galion Products Inc 625 S Mar-ket St Galion Ohio Hess Co 1855 S 54 Ave Chicago 50 Ill

Hess Mg Ce Quincy Pa Hettrick W E & Son Co 3333 Maple Sta-tion D Toledo 8 Ohio Hewitt-Robins Inc 666 Glenbrook Rr

Stamford Conn Hico Corp of America 120 Broadway New

York 5 NY Water Sts Rochester Mich Higgins Industries Inc PO Box 8169 New

Orleans La Hild Floor Machine Co Inc 1217 W Washington Chicago 7 Ill Hillwood Mfg Co 21700 St Clair Ave Cleveland 17 Ohio

Hillyer-Deutsch-Edwards Inc Oakdale La Riiti Rapid Fastening Systems Inc 73 Southfield Ave Stamford Conn Hines Edward Lumber Co 200 S Michi-gan Ave Chicago 4 III Hinge Butt Template 253 W Harriet St Altadena Cal Altadena Cal Hoffman Specialty Mfg Corp 1700 W 10 St Indianapolis 7 Ind Hoitsma Adjustable Scaffold Bracket Co 261-265 E 23 St Paterson 4 NJ Holcomb & Hoke Mfg Co Inc 1545 Van Buren Indianapolis 7 Ind Hollander Mfg Co 3841 Spring Grove Cincinnati 23 Ohio Holland Furnace Co Holland Mich Holland Endder & Mfg Co 13053 W 17 St Holland Mich Holland Sich Bracket Siegler Corp 875 S Arroyo Pkway Pasadena Cal S Arroyo Pkway Pasadena Cal Hellyview Aluminum Rolling Glass Doors, Windows 13060 Saticoy N Hollywood Cal Holms Mfg Co of Ohio 1340 Lake Shore Bivd Akron 1 Ohio Holophane Co Inc 342 Madison Ave New York 17 NY Helt Mfg Ce 669 20th St Oakland 12 Cal Helub Industries Inc 473 Elm St Sycamore Ill Homasete Co Ferwood Rd Trenton NJ Home Building Plan Service 2454 NE Sandy Blvd Portland 12 Ore Home Music Systems Inc 644 Madison St Memphis Tenn Home Plan Book Co 1596 Selby Ave St Paul 4 Minn
Home Planners Inc 16310 Grand River
Detroit 27 Mich
Homelite Div Textron Inc 67 Riverdale
Ave Port Chester NY
Hood Bros 4336 Orchard St Philadelphia
24 De Hood 24 Pa 24 Pa Hood Ceramic Corp Daisy Tenn Hoosier Tarpaulin & Canvas Goods Co PO Box 574 Indianapolis Ind Hoover Bathroom Accessories Fowlerville, Mich Mich
Hope Brick Works PO Box 155 Hope Ark
Hopes Windows Inc 84 Hopkins Ave
Jamestown NY
Hopkins Mfg Corp Emporia Kan
Horizon Door Co 640 Paula St Glendale
1 Cal 1 Cal
Horn A C Companies Div Sun Chemical
Corp 2133 85th St North Bergen NJ
Horner Flooring Co Dollar Bay Mich
Hosking John H Co 1704 Howland Ave
Cincinnati Ohio
Hotpoint Div 5800 W Taylor St Chicago Hotstream Heater Co 2363 E 69 St Cleve-land 4 Ohio Hough Frank Co 811 Sunnyside Ave Libriville III
Hough Mfg Corp 1029 S Jackson St
Janesville Wisc
Howard Mfg Co Kent Wash
Howell Mfg Co Morehall Rd Paoli Pa Howell Mfg Co Morehall Rd Paoli Pa Hubbell Harvey Ine State & Bostwick Bridgeport 5 Conn Hudson H D Mfg Co 589 E Illinols St Chicago 11 Ill Humboldt Brick & Tile Co 910 New York St Humboldt Kan Humphrey Products Inc 719 E Zimmerly PO Box 2868 Wichita 11 Kan Humptulips Shingle Co Rt 3 Box 1186 Hoquiam Wash Huncilman & Son New Albany Ind Hunter Div-Robbins & Myers Inc 2500 Frisco Ave Memphis Tenn Hunter Div-Robbins & Myers Inc 2500 Frisco Ave Memphis Tenn Huntington Shingle Co Springfield Ore Hurn Shingle Co Rt 1 Concrete Wash Hussey C G & Co 2860 Second Ave Pitts-burgh 19 Pa Hutchinson R H & Co 2810 Sylvan Ave Dallas 12 Tex Huther Brothers Saw Mfg Co Inc 1290 University Rochester 7 NY Hyde-Murphy Co Murphy Bldg Ridgway Hyde Park Products Co Burch Ave & NWRR Cincinnati 8 Ohio Hydrolevel 53 DeSoto Ave Ocean Springs Hydrotherm Inc Clinton Ave Northvale

I-XL Furniture Co 410 N Main St Goshen Ida Products Co 3001 Miller Ave Detroit 11 Mich
11 Mich
1deal Brass Works Inc 215 E Ninth St
St Paul 1 Minn
ideal Cement Co 500 Denver Nati Bldg
Denver 2 Colo
Ideal Hauger Co 1292 E 53 St Cleveland 14 Ohio
Ideal Co Mfg Div Wm Cameron & Co
24th & Mary Sts Waco Tex
Ideal System Co 2437 W Pico Bivd Los
Angeles 6 Cal ILG Electric Ventilating Co 2850 N Pu-laski Rd Chicago 41 Ill Illinois Brick Co 228 N LaSalle St Chicago Ill cago III Imperial Color Chemical & Paper Corp PO Box 231 Glens Falls NY Incinerator Products Co 655 Post Ave S Detroit 17 Mich Inclinator Products Co 633 Post Ave S Detroit Mich Detroit Mich
Inclinator Co of America 2200 Paxton
Blvd Harrisburg Pa
Independence Oak Flooring Co Independence La
Independent Lock Co 1959 Cleghorn Independent Lock Co 1959 Cleghorn Fitchburg Mass Independent Lumber Co 19620 Notting-ham Cleveland Ohio ham Cleveland Ohio Independent Nail & Packing Co Bridgewater Mass Independent Protection Co Inc 1603-09 S Main St Goshen Ind Indiana Cash Drawer Co Sheibyville Ind Indiana Limestone Co Inc 405 N I St Bedford Ind Industrial Canvas Prods Corp 15-25 Flax St Delaware Ohio Industrial Iron Works PO Box 4691 Portland 2 Ore land 2 Ore Infra Insulation Ine West Nyack NY Ingersoil Prod Div Borg-Warner 1000 W 120 St Chicago III Ingersoil-Rand Co 11 Broadway New York 4 NY Ingram-Richardson Mfg Co 32 St Beaver Falls Pa Inland Steel Co 30 W Monroe St Chi-cago 3 Ill Cago 3 III
Inland Steel Products Co 4025 West
Burnham Milwaukee 1 Wisc
In-Sink-Erater Mfg Co 1225 14th St Racine Wisc Insta-matic Heater Co 89 Charles St Providence RI Inste-Gas Corp 998 E Woodbridge Detroit Mich Insulite Div Minnesota & Ontario Paper Co 500 Investors Bldg Minneapolis Minn
Insul-Wool Insulation Corp 121 N Dodge
Wichita 12 Kan
International Business Machines Corp 590
Madison Ave New York 22 NY
International Fireproof Door Co 76 Lexington Ave Brooklyn 38 NY
International Harvester Co 180 N Michigan Chicago III
International Oil Burner Co 3800 Park
Ave St Louis 10 Mo
International Paper Co Long-Bell Div 928
Grand Ave Kansas City 6 Mo
International Register Co 2620 W Washington Chicago III ington Chicago Ill International Steel Co 1321 Edgar St Evansville 7 Ind Evansville 7 Ind Interstate Brick Co 3100 S 11 E Salt Lake City Utah Ipik Door Co Inc Kenner La Irmanton Products Co 70-70 80th St Glen-dale 27 NY Ironrite Inc 332 Cass Ave Mt Clemens Mich Mich Irvington Form & Tank Co 100 William - St New York 38 NY Irwin Auger Bit Co Wilmington Ohio Ives H B Co 5 Artizan St New Haven 8

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J & B Plastics Co Inc 410 N Depot St Fairfield Iowa J M J Industries Inc PO Box 283 Belleville III Jackson Mfg Co 2303 W Fairview Ave Montgomery Aia

Jackson Mfg Ce Lochiel Rd Harrisburg Jackson Shake Co Moclips Wash Jackson Vibrators Inc Jackson St Lud-ington Mich Jacuzzi Bros Ine 5327 Jacuzzi Ave Rich-mond Cal neger Machine Co 550 W Spring St Co-lumbus Ohio Janesville Cotton Mills 100 E 69 St Cincinnati 16 Ohio Surface Combustion Corp 400 Dublin
Ave Columbus 16 Ohio reminal Rd New Hyde Park NY Jasper Wood Products Co Inc 13th & Leopold Sts Jasper Ind Leopold Sts Jasper Ind Jay Co Div Leukart Mach Co Inc 2222 S Third St Columbus 7 Ohio Jay Lighting Mfg Co Inc 25 Quincy St Brooklyn 38 NY Jeff Jenes Co PO Box 9242 Montclair Station Denver 20 Colo Jeffery Form Tie Co Marengo Ill Jenkins Brick Co PO Box 91 Montgomery Ala Jenkins Lumber & Mfg Co 4120 S First Ave Birmingham Ala Jenssen Industries 165 S Mission Rd Los Jenssen Industries 165 S Mission Rd Los Angeles 33 Cai Jerroid Electronics Corp 15th & Lehigh Sts Philadelphia Pa Jet Tooi Inc Box 547 Lemon Grove Cai Jewel Paint & Varnish Co 345 N Western Ave Chicago 12 Ill John Deere Industrial Div 3300 River Drive Moline Ill Johns-Manville Corp 22 E 40 St New York 16 NY York 16 NY Johnson C S Co PO Box 71 Champaign m Johnson & Johnson Shake Co Box 989 Castle Rock Wash Johnson Plastics Corp Box 100 Chagrin Falls Ohio Johnson's Wax 1525 Howe St Racine Wisc Johnson S T Co 940 Arlington Ave Oak-land 8 Cal Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh Pa Jones Shutter Products 246 NW 29 St Miami Fla Jones Superior Machine Co 2820 W Grand Ave Chicago 12 Ill Jones Veneer & Plywood Co PO Box 252 Eugene Ore Jordan Industries 3030 NW 75 St Miami Josam Mfg Co Michigan City Ind Junior-Pro Products Co 118 E Marceau St St Louis 11 Mo Kaar Engineering Corp 2905 Middlefield Rd Palo Alto Cal Rd Palo Alto Cal Kaiser Aluminum & Chemical Corp 300 Lakeside Drive Oakland Cal Lakeside Drive Oakland Cal
Kaiser Aluminum & Chemical Sales Inc
Building Products Div 300 Lakeside
Drive Oakland Cal
Kaiser Gypsum Co Inc 300 Lakeside
Drive Oakland 12 Cal
Kaiser Steel Corp 300 Lakeside Drive
Oakland 12 Cal
Kane Mr. Corp. PO. Boy 641 Kane Po

Kaiser Gypsum Co Inc 300 Lakeside Drive Oakland 12 Cal Kaiser Steel Corp 300 Lakeside Drive Oakland 12 Cal Kane Mfg Corp PO Box 641 Kane Pa Kant-Slam Doer Cheek Co Box 228 Hioomfield Ind Karelius Albert & Sons Inc 919 S Fremont Ave Alhambra Cal Katelight Corp Box 891 Mankato Minn Kaul Clay Co Spring St PO Box 628 Toronto Ohio Kaustine Furnace & Tank Ce 1492 Washington Ave Perry NY Kawneer Co 1105 N Front St Niles Mich Kay-Tite Co 10 White St West Orange NJ Keasbey & Mattison Co 1944 Mitchell St Ambler Pa Kedman Co 233 S 5 West St Salt Lake City Utah Kees F D Mfg Co 700 Park Ave Beatrice Neb Helley Machine Div Wiesner-Rapp Co Inc 235 Himman Ave Buffalo 23 NY Kelvinator Div American Motors Co 14250 Plymouth Rd Detroit 32 Mich Kenco Manufacturing Co 5211 Telegraph Rd Los Angeles 22 Cal Kenco Pump Division 1305 Oberlin Ave Lorain Ohio

Minneapolis 21 Minn
Hyster Co 2902-18 NE Clackamas St
Portland 8 Ore

Kendrick Brick & Tile Co 3235 S Boule-vard Charlotte NC

Kennatrack Corp Sub Ekco Prods PO Box 677 Eikhart Ind Kennebec Inc Owens St Bingham Me Kent Air Tool Co 711 Lake St Kent Ohio Kentile Inc 58 Second Ave Brooklyn 15

NY
Kentucky Flooring Co of Va Inc PO
Box 791 Orange Va
Kerner Incinerator Div of Morse Boulger
Inc 80 Fifth Ave New York 11 NY
Kesko Prods Inc PO Box 277 Bristol Ind
Kessler Products Co 4521 Lake Park Rd

Messier Products Co 4521 Lake Park Rd Youngstown Ohlo Ketcham G M Mfg Corp 70-70 80th St Glendale 27 NY Kett Tool Co 5055 Madison Rd Cincin-nati 27 Ohlo

Keuffel & Esser Co 300 Adams St Ho-boken NJ Kewanee Mfg Co 1642 Burlington Ave Kewanee III

Keystone Alloys Co Mellon Nati Bank Bldg Latrobe Pa Keystone Frame & Mfg Co PO Box 35 Spokane Wash Keystone Mfg Co 23328 Sherwood Ave Warren Mich

one-Seneca Wire Cloth Co Factory St Hanover Pa Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ili

Front Ave SW Grand Rapids Mich Kimbali Mfg Co 1014 Davis St Evanston

Kimble Glass Co Sub Owens-Illinois PO

Kimble Glass Co Sub Owens-Illinois PO Box 1035 Toledo I Ohio King Mfg Co 3146 W Chicago Ave Chi-cago Ill King Refrigerator Corp 76-02 Woodhaven Blvd Glendale 27 NY Kingsford Ornamental Bidg Prods PO Box 9536 Pittsburgh 23 Pa

Kingston Mills Inc Cartersville Ga Kinkead Industries Inc 5860 N Pulaski

Rinkean industries inc 3000 N Pulaisti Rd Chicago 30 III Kinnear Mfg Co Box 508 Columbus Ohio Kirlin Co 3435 E Jefferson Detroit 7 Mich KitchenAid Home Dishwasher Div Ho-bart Mfg Co 711 Pennsylvania Troy

Kitchen Kompact Inc 911 E 11th St Jeffersonville Ind

Kitchen Maid Corp 541 Snowden Andrews Ind

Kitchenering Co of America 6618 E 37 St Kansas City 29 Mo Klauer Mfg Co Ninth & Wash Sts Du-

Klauer Mig Co Ninth & Wash Sts Du-buque Ia Klise Mfg Co 52 Cottage Grove SW Grand Rapids 2 Mich Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich Knoll-Drake Products Inc Box 996 Aus-

tin Tex Kochton Plywood & Veneer Co Inc 509 W Roosevelt Chicago 7 Ill Koehring Co 3026 W Concordia Milwau-

kee Wisc Kohler Co 44 High St Kohler Wisc Kol-Master Corp 124 Walberg St Oregon TII

Koolvent Metal Awning Corp of America 902 Arrott Bldg Pittsburgh 22 Pa Koppers Co Inc Koppers Bldg Pittsburgh

Koppers Co Inc Durethene Plant 7001 W 60 St Chicago 38 Ill Kor-It Co Inc 991 Richard Ave Santa Clara Cal

Kordite Co Macedon NY

Korfund Co Inc Cantiague Rd Westbury

Kosmos Pertiand Cement Co 1529 Starks Bidg Louisville 2 Ky Koven L O & Bro Inc Richboynton Rd

Dover NJ Kresky Mfg Co Inc Second & H Sts Pe-

Kresne-Stamm Corp 400 Commercial Ave Palisades Pk NJ Kreuger Mfg Co 1445 E Main St Owosso Mich

Krieg Victor J Inc 611 Broadway New York 12 NY Kritzer Radiant Colls Inc 325 N River St

Hatavia III Kwikset Div American Hardware Corp 516 E Santa Ana St Anaheim Cal Kyanize Paints Inc Second & Boston Sts

Everett 49 Mass

LCN Closers Inc 111 W Railroad Ave Princeton III
Laboratory Equip Corp Hilltop Rd St Jo-

Labrie Mfg Co Inc 3525 NW 50th Miami

Laclede Steel Co Arcade Bldg St Louis

Lake Drive Products Co Inc PO Box 166 Edgerton Lake Lytle Shingle Co Box 371 Manhat-tan Beach RS Rockaway Ore

Lake Shore Inc Lake Shore Engineering Div E Magnetic St Iron Mountain Mich-Lamin Art Fabricon Products 6430 E

Slauson Ave Los Angeles 22 Cal Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio

Lancaster Pump & Mfg Co Inc 1340 Manheim Pike PO Box 778 Lancaster

Landers Segal Color Co 78 Delavan St Brooklyn 31 NY Landon Inc 7240 Fulton Ave N Hollywood

Lanebro Mfg Co 110 Main St W Pough-keepsie NY Larsen Products Corp Box 5938 F Be-

theada Mid Larson Chas O Co PO Box 358 Sterling TIL

arson Ladder Co 651 Martin Ave Santa Clara Cal Industries Inc 1561 Chapin Rd

Montebello Cal Lastik Paint Inc 200 S Craig St Pitts-

burgh 13 Pa Late Prods Co 909 New Boston Rd Texarkana Te Lau Blower Co 2001 Home Ave Dayton 7

Ohio
Lawler Automatic Controls Inc 453 N
Macquesten Mt Vernon NY
Lawrence Brothers Inc Sterling III
Lawrence W & Co 1124-32 W Carson
Pittsburgh 19 Pa
Lawson F H Co 801 Evans St Cincinnati

4 Ohio Lawyers Title Insurance Corp 3800 Cut-shaw Ave Richmond Va Le Boi Div Westinghouse Air Brake Co

Sidney Ohio
Leathers A H Mfg Co Box 29 Dickson

Tenn Millwork Corp 4-21 Banta Place Fairlawn NJ

Leeds Edward & Co Lakeview LI NY Legion Stainless Sink Corp 40 Ave & 21 St Long Island City NY Lehigh Portland Cement Co 718 Hamil-

ton St Allentown Pa Lehman Co 1703 S Ironwood South Bend

Lehman Specialty Co 3355 York Rd Philadelphia 40 Pa Lehon Co 25th & Warren Bellwood Ill

Leigh Building Products Div of Air Contrel Products Inc 1659 Bee St Dept 4 Coopersville Mich

Lenawee Peerless Inc 1412 E Michigan St Adrian Mich Lennox Industries Inc 200 S Twelfth Ave

Marshalltown Iowa Leslie Welding Co Inc 11241 W Melrose

St Franklin Park Ill LeTourneau-Westinghouse Co 2301 N Ad-St Peoria Ill

Levelall 83 Webster St Rockland Mass Leviton Mfg Co Inc 236 Greenpoint Ave Brooklyn 22 NY

Lewis-Shepard Products Inc 1556 Wal-nut St Watertown 72 Mass

Libbey-Owens-Ford Glass Co 811 Mad-ison Ave Toledo 1 Ohio Lifetime Industries Inc 629 Bergman Ave Louisville 3 Ky

Lightolier Inc 346 Claremont Ave Jersey City NJ Lilly David Advertising Cartoons Box 167 Long Beach 1 Cal

Lima Register Co 1790 N Cable Rd Lima

Lindemann A J & Hoverson Co 5119 Dis-trict Blvd Los Angeles 22 Cal Lindsay Co Div Union Tank Car Co 1361 Marshall Ave St Paul 4 Minn Line Material Industries McGraw-Edison Co 700 W Michigan St Milwaukee Wisc

Link-Belt Speeder Corp 1204 Sixth St SW Cedar Rapids Iowa

Lippmann Engineering Works Inc 4003 W Mitchell St Milwaukee 14 Wisc

Mitchell St Milwaukee 14 Wisc Litecraft Mfg Pacific Corp 545 Rodier Dr Glendale 1 Cal Lithibar Co 345 W 14 St Holland Mich Little H C Burner Co PO Box 60 San Rafael Cal

Lock-Joint Window Co 817 NW 61st Oklahoma City 18 Okla Locke Mfg Co Ohio St Lodi Ohio Locke Stove Co 114 W 11 St Kansas City 5 Mo

5 Mo
Lockhart Mfg Corp 32840 W 8 Mile Rd
Farmington Mich
Lockport Mills Ine Lockport NY
Lockwood Hardware Mfg Co 1960 Cleghorn St Fitchburg Mass
Logan Clay Prods Co Box 698 Logan Ohio
Logan Co 201 Cabel St Louisville 6 Ky
Logan-Long Co 6600 S Central Ave Chicago 38 Ill
Loga Star Coment Corp. 100 Park Ave

Star Cement Corp 100 Park Ave

York 17 NY Longview Lime Corp Sub of Woodward Iron Co Woodward Ala Longview Shake Co 2236 Cascade Way

Longview Wash
Look Products Inc Box 1145 1090 East

16th St Hialeah Pa Lookout Boiler & Mg Co Mfrs Rd & Compress St Chattanooga Tenn Lord & Burnham Div Burnham Corp

Main St Irvington NY Louden Machinery Co 2504 West Court Fairfield Iowa

Louisville Cement Co 501 S Second St Louisville Ky Louisville Ladder Co 1101 W Oak St Lou-

Louisville Ladder Co 1101 W Oak St Lou-isville Ky Louver Mfg & Supply 3601 Woodale Ave Minneapolis Minn Louv-R-Pak Inc 3629 E First St Ft Worth

Lowe Bros 424 E Third St Dayton 2 Ohio Loxereen Co Inc PO Box 5133 Columbia

Lucas John & Co Inc 1617 Penna Blvd Philadelphia 3 Pa Lucke William B Inc 514 Poplar Drive

Wilmette III Ludlow Papers Div of Ludlow Corp 145 Rosemary St Needham Heights 94 Mass Ludowici-Celadon Co 75 E Wacker Dr

Chicago 1 Ill Ludwig Mfg Co Inc 1405-16th St Racine Lufkin Rule Co 1730 Hess Ave Saginaw

Lumino Co 515 Madison Ave New York

Luminous Ceilings Inc 3701 N Ravens-wood Ave Chicago 13 Ill Lustrik Inc 3225 Frankford Ave Philadelphia Pa

Lustro Tile Mfg Co 1066 Home Ave Akron 10 Ohio Luxer Carpet Co 1507 Copley Rd Akron 20 Ohio

Lyf-Alum Inc 930 Armour Rd Oconomo-woc Wisc Lyon Inc 13881 W Chicago Blvd Detroit

28 Mich Lyon Conklin & Co Inc Race & McComas

St Baltimore 30 Md Lyon Metal Products Inc 25 Montgom-ery St Aurora III

M

Mackie Mill Co Star Rt Box 36 Aberdeen Wash

Mackianburg-Duncan Co PO Box 1197 Oklahoma City Okla Mace Corp 1345 Henry St Huntington Ind

Macomber Inc 1925 Tenth Canton Ohio Madison Glue Corp 200 W 34 St New York 1 NY

Magic Chef Cleveland Tenn

Maginniss Power Tool Co 154 Distl Ave Mansfield Ohio

Maguire Walter Co Inc 60 E 42 St New York NY

Mahon R C Co 6565 E Eight Mile Rd Detroit Mich Majestic Co Inc 433 Eric St Huntington Ind

Major Industries Inc 505 N LaSalle St Chicago 10 Ill

Major Line Products Co Inc 120 Sixth Ave N Seattle Wash Malibu Mfg Corp 1557 N Tyler Ave El-

mailed Mig Corp 1557 N 191er Ave El-monte Cal Malta Mig Co Malta Ohio Malvern Flue Lining Inc Maivern Ohio Manhattan Terrazzo Brass Strip PO Box 187 Norwalk Conn

187 Norwalk Conn
Manitowoc Equip Works Manitowoc Wisc
Manning Maxwell & Moore Inc ShawBox Crane & Hoist Div W Broadway
Muskegon Mich
Mansfield Sanitary Inc Perrysville Ohio
Marchant Div of Smith-Corons Marchant
Inc 6701 San Pablo Ave Oakland 8 Cal
Marietta Paint & Color Co Green &
Acme Sts Marietta Ohio
Markel Electric Profs. Inc 151 Sepeca St

Markel Electric Prods Inc 151 Seneca St Buffalo NY Markwell Mfg Co Inc 424 W 33rd St New York 1 NY

Marlin Pool Equip Co 14600 Arminta Van Nuys Cal

Marlow Pumps Div Bell & Gossett Co PO Box 200 Midland Park NJ Marmet Corp PO Box 208 Wausau Wisc Marmon-Herrington Co Inc 15 Washington Indianapolis 7 Ind Marona Mill Co Darrington Wash 1511

Marquette Cement Mfg Co 20 N Wacker Dr Chicago 6 Ill

Marsh Furniture Co High Point NC Marsh Lumber Co S Tuscawaras Ave Dover Ohio Marsh Products Corp 4931 Bethesda Ave

Bethesda Md Marsh Wall Products Inc 403 Main St Dover Ohio

Martin Bros Cont & Timber Prods Corp PO Box 698 Oakland Ore Martin-Senour Co 2500 S Senour Ave

Chicago Ill Marvan Corp PO Box 219 W Hartford

Marvel Equipment Corp 1803 Bowen St Oslikosh Wisc Marvel Metal Prods Co 3843 W 43 St Chi-

cago 32 Ill

cago 32 111
Marvin Electric Mfg Co 648 S Santa Fe
Ave Los Angeles 21 Cal
Masland C H & Sons Carlisle Pa
Masland Duraleather Co Amber & Wil-

lard St Philadelphia Pa lason City Brick & Tile 200 Brick & Tile

Bidg Mason City Iowa lasonite Corp 111 W Washington Chicago 2 Ili

Massey-Ferguson Inc Industrial Div 12601 Southfield Rd Detroit Mich Master Builders Co 2490 Lee Bivd Cleve-land 18 Ohio

land 18 Ohio
Master Hung Door Equip Co Franklin
Apts Bldg Potstown Pa
Master Mechanic Mfg Co PO Box 389
Burlington Wine
Master Metal Strip Service Inc 3940 W
Industrial Ave Rolling Meadows Ill
Master Vibrator Co 1752 Stanley Ave
Dayton Ohio
Master Westernate Medical Parts Stanley Ave

Master Woodworker Mfg Co Inc 401-411 E Fort St Detroit 26 Mich

Mastic Corp PO Box 65 131 S Taylor St South Bend 24 Ind Mastic Tile Div Rubereid Co PO Box 128

Vails Gate NY Mastro Plastics Corp 3040 Webster Ave Bronx NY

Mathews Conveyor Co 190 Tenth St Ell-

Mathews Conveyor Co 190 Tenth St Ellwood City Pa
Mattison Machine Works 545 Blackhawk
Park Rockford III
Mauk Seattle Lumber Co PO Box 148
University Station Seattle 5 Wash
Mayes Bros Tool Mfg Co 104 Ashe St
Johnson City Tenn
Mayhew Steel Products Inc Sears St
Shelburne Falls Mass
Maytag Co Newton Iowa
Maze W H Co 300 Church St Peru 3 III
McCabe Powers Body Co 5900 N Broadway St Louis 15 Mo
McCalis Magaxine 230 Park Ave New
York 17 NY
McDonald A Y Mfg Co Twelfth & Pine

No Consult A Y Mfg Co Twelfth & Pine Sts Dubuque Iowa
McDonough Mfg Co 1530 Galloway Eau McDonot Claire

McGuffie Co 4832 Ridge Rd Cleveland 9 McKee Door Co 85 Hankes Ave Aurora

McKinney Mfg Co 1715 Liverpool St Pittsburgh 33 Pa

McLean Engineering Labs 70 Washing-ton Rd Box 228 Princeton NJ McMinnville Mfg Co S Chancery St Mc-Minnville Tenn

McPherson Inc 4603 W Osborne Ave Tampa 3 Fla

McQuay Inc 1600 Broadway NE Minne-apolis Minn Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill

Meadow River Lumber Co Box 245 Rai-

Meadow River Lumber Co Box 200 Rear-nelle W Va Meadows W R Inc 2 Kimball Elgin Ill Medalist Hardware Div National Lock Co 1902 Seventh St Rockford Ill Medford Veneer & Plywood Corp PO Box 507 Medford Ore

507 Medford Ore Medusa Portland Cement Co PO Box 5688 Cleveland 1 Ohio Meier Electric & Machine Co Inc 3525 E Washington Indianapolis Ind Meilink Steel Safe Co 1672 Oakwood To-

Memphis Hardwood Flooring Co 1591 Thomas St Memphis 7 Tenn Menasha Sales Corp North Bend Ore

Mengel Co 4th & Broadway Louisville Ky Mercoid Corp 4201 W Belmont Ave Chicago 41 Ill

Meridian Wood Prods Co Box 5 Merid-

ian Miss Merillat Woodworking Co 2075 W Beecher Rd Adrian Mich Merit Products Inc 3601 Lenawee Ave Los Angeles Cal

Los Angeles Cal Merwin Mfg Co 19th & German Erie Pa Mesker Bros Iron Co 6002 Lindbergh Ha-zelwood Mo Metal Crafters E Ave at 18th NE PO Box 830 Ceder Benjde Verse

Cedar Rapids Iowa Metal Trims Inc PO Box 632 Jackson 1

Metalbestos Div Wm Wallace Co PO Box 137 Belmont Cal Met-Cro Specialties Co Inc PO Box 406 Portchester NY Metropolitan Brick Inc 1017 Renkert Bldg Canton 2 Ohio

Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich Meyer Furnace Co 1390 S Washington Feoria III

Meyers Fred L Mfg Co 1176 Hooven Ave Hamilton Ohio Miami Cabinet Div Philip Carey Mfg 1700 Grand Ave Middletown Ohio Miami General Air Conditioning Div

Miami Okia Miami Window Corp PO Box 48-877 In-ternational Airport Branch Miami 48 Fla

Michel & Pfeffer Iron Works Inc 212 Shaw Rd S San Francisco Cal Michigan Ladder Co 12 E Forest Ave Ypsilanti Mich Midget Louver Co 6-8 Wall St Norwalk

Midland Brick & Tile Co Chillicothe Mo Midland Products Co Mahwah NJ Mid-States Steel & Wire Co Crawfords-ville Ind

Midwest Plywood Co 10123 Lyndon Ave Detroit 38 Mich Miller Bres Co PO Box 540 Johnson City

Miller Co 99 Center St Meriden Conn Miller Frank B Mfg Co 3216 Valhalla Dr Burbank Cal

Miller George E Lumber Co 1111 Equita-ble Bldg Portland 4 Ore

Miller Howard Clock Co Zeeland Mich Miller Sliding Glass Door Co Inc 3216 Valhalla Dr Burbank Cal Millers Falls Co 57 Wells St Greenfield

Mills Co 960 Wayside Rd Cleveland 10

Milwaukee Elec Teel Corp 5356 W State St Milwaukee Wisc

st Milwaukee Wisc Milwaukee Faucets Ine 4250 N 124 St Milwaukee 22 Wisc Milwaukee Stamping Co Bathe-Rite Div 900 N Klipatrick Ave Chicago 51 Ill Minneapolis Honeywell Regulator 2753 S Fourth Ave Minneapolis 8 Minn Minneapolis-Mollne Co 130 Ninth Ave S Hopkins Minn Minneapolis Mollne & Min Co Co Ninth

Minnesota Mining & Mfg Co 900 Bush Ave St Paul Minn

Minnesota Paints Inc 1101 Third St S Minneapolis Minn

Miracle Adhesives Corp 250 Pettit Ave Bellmore LJ NY

Miracle Hinge Co Monticello NY
Miranco Inc Div of Miracle Adhesives
Corp 250 Pettit Ave Bellmore NY
Miraplas Tile Co 980 Parsons Ave Columbus 6 Ohio
Mira-Cete Co Inc 120 Standard St PO
Box 158 El Segundo Cal
Mirro Chrome Co Inc PO Box 315 Garnerville NY
Misceramic Tile PO Box 1070 Cleveland
Miss

Miss

Missoula White Pine Sash Ce Scott & Stoddard Missoula Mont Mitchel Rubber Prods Inc 2114 San Fernando Los Angeles 65 Cal Mixermebile Manufacturers 8027 NE Killingsworth Portland 20 Ore Mobile Paint Mfg Co PO Box 1686 Mo-

bile Ala bile Ala Modern Swimming Pool Co Inc 1 Hol-land Ave White Plains NY Modernwood Co PO Box 360 Clinton SC Modine Mfg Co 1501 Dekoven Ave Ra-cine Wisc

Moon Faucet Div Standard Screw Co 377 Woodland Ave Elyria Ohlo Mohawk Flush Doors 212 W Ewing St

Mohawk Flush Doors 212 W Ewing St South Bend Ind Molco Drilling Machines Inc 909 Frank-lin St NE Washington DC Molly Corp 504 Med Arts Bldg Reading

Moloney Co 13125 Shaker Sq Cleveland 20 Ohio

20 Ohio Momar Industries 4176 Montrose Ave Chicago 41 Ill Monarch Bange Co 1511T Lake St Beaver Dam Wisc Mondial United Corp 532 Madison Ave News Votes 29 NV

New York 22 NY onogram Industries Inc 825 S Front St Quincy III

Monostructure Inc Sarasota Bradenton Sarasota Fla Monroe Co Inc 10703 Quebec Ave Cleve-

land 6 Ohio Moore Goodloe E Inc 2811 N Vermilion St Danville III

St Danville III

Monsanto Chemical Co Organic Chemicals Div Lindbergh & Olive St Rd St
Louis 66 Mo

Monsanto Chemical Co Plastics Div 812

Monsanto Ave SpringBeld 2 Mass

Moore A E Co Inc Waupaca Wisc

Moore Pipe & Sprinkler Co 1220 W State

St Jacksonville 1 Fla

Moorhead Brick & Tile Co Fifth Ave &
11 St St Joseph 41 Mo

Morgan Company 520 Oregon St Oshkosh

Wisc

Wisc Morgan Machine Co 1230 University Ave Rochester NY Morgan-Wightman Co 9910 Page Blvd St Louis 66 Mo

Morgen Mfg Co 117 W Third St Yankton

Morphy-Richards Inc 232 S Van Brunt St Englewood NJ Morrison Co 125 W Melvina St Milwau-kee Wisc

Morrison Steel Products Inc 601 Amherst St Buffalo 7 NY Mortell J W Co 550 N Hobbie Ave Kan-

kakee Ill Mortgage Exchange Co of America Inc 608 Louisville Trust Bldg Louisville 2 Morton Ceramic Tile Co Morton Ill

Mosaic Tile Co 1949 Pershing Ave Zanes-ville Ohio Mosler Safe Co 320 Fifth Ave New York

I NY
Mosley Electronics Inc 4610 N Lindbergh
Blvd Bridgeton Mo
Moior Truck Div International Harvester
Co 180 N Michigan Ave Chicago I III
Motor Wheel Corp Duo-Therm Div East
Saginaw St Lansing 3 Mich
Motorola Communications & Electronics
Co 4501 W Augusta Blvd Chicago 51 III
Moulton Ladder Mfg Co 2-40 Harding St
Somerville Mass
Mt Pleasant Shingle Co 1403 W Eighth
Port Angeles Wash
Mt Vernon Furnace & Mfg Co PO Box

Mt Vernon Furnace & Mfg Co PO Box 213 Mt Vernon Ill Mower Lumber Co PO Box 2151 Charles-ton 28 W Va

Mueller Brass Co 1925 Lapeer Ave Port Huron Mich

Mueller Climatrol Div Worthington Corp 2005 W Oklahoma Box 401 Milwaukee Wisc

Mulkey Sam Co Box 270 Lee Summit Mo Muller Machinery Co Inc 750 Whitman Ave Metuchen 4 NJ

Multnomah Plywood Corp 1500 SW Har-bor Dr Portland 1 Ore Muncle Gear Co PO Box 433 Cordele Ga Murphy Precast Inc PO Box 254 Hills-dale Mich

Murray Mfg Corp 1250 Atlantic Ave Brooklyn 16 NY Murray Tile Co Inc Lewisport Ky Music & Sound Inc 118 Lesile St Dallas

Tex lusson R C Rubber Co 1320 Archwood Ave Akron 6 Ohio

Mustee E L & Sons Inc 6911 Lorain Ave Cleveland 2 Ohio Mutschier Bros 302 S Madison St Nap-

Mutschier Bros 302 S Madison St Nap-panee Ind Mutual Fir Column Co PO Box 1342 Ta-coma 1 Wash Myers F E & Bros Co 424-34 Orange St Ashland Ohio

Nalle Plastics Inc 108-112 W Second St Austin 1 Tex Natce Cerp 327 Fifth Ave Pittsburgh 22

National Casein Co 601 W 80 St Chicago 20 III

National Cash Register Co S Main & K Sts Dayton 9 Ohio National Chemical & Mig Co 3617 S May St Chicago 9 Ill National-Detroit Inc 2810 Auburn Rock-

ford III National Disposer 920 W Lafayette Rd Medina Ohio

National Floor Prods Co Florence Ala National Forest Prods Co Box 510 Jacksonville Tex

sonville Tex
National Gypsum Co Gold Bond Bldg 325
Delaware Ave Buffalo 2 NY
National Home Planning Service 80 Morris Ave Springfield NJ
National Kitchens 163 Avenue A Bayone NJ

onne NJ National Lead Co 111 Broadway New York 6 NY

National Mfg Co 1 First Ave Sterling Ill National Mfg Corp PO Box 189 Tona-

wanda NY National Metal Prods 2 Gateway Center Pittsburgh 22 Pa

Pittsburgh 22 Pa
National Plastic Products Co Odenton Md
National Plumbing Fixture Corp South
Second Elwood City Pa
National Pool Equipment Co Lee Highway Florence Ala
National Rubber Machinery Co Plumbing
Equipment Div 920 W Lafayette Rd
Medina Ohio
National Second

ational Stove Co 163 Avenue A Bay-

National Tile & Mfg Co 1200 E 26 St Anderson Ind National Vanity Co 165 Avenue A Bay-

National Window Corp PO Box 632 Jack-

son Miss Nationwide House Plan Service 595 Hope

Nationwide House Plan Service 595 Hope St Providence RI Nationwide Plan Book Co PO Box 404 Northridge Cal Neils J Lumber Co Div St Regis Paper Co Libby Mont Nelson Stud Driver Div Gregory Indus-tries Inc E 28 St & Toledo Ave Lor-

ain Ohio Nesbitt John J Inc State Rd & Rhawn St Philadelphia 36 Pa Nevamar Carefree Kitchens Odenton Md

New Castle Products Inc Box 353 New Castle Ind

New England Carbide Tool Co Inc 55 Commercial St Medford 55 Mass New London Engineering Co 1700 Divi-sion St New London Wisc

New London Shake Co Box 535 Hoquiam

New Monarch Machine & Stamping 406 SW Ninth St Des Moines 9 Iowa New York Wire Cloth Co Inc 441 E Mar-ket St York Pa

Newark Ladder & Bracket Co Inc 17 Walnut Ave Clark Rahway NJ

Niagara Furnace Div Forest City Foun-dries Co 2500 W 27 St Cleveland 13 Ohio

Niagara Plywood Co Inc 1091 Ellicott Square Buffalo NY Nicholls Mfg Co Ottumwa Iowa Nichols Wire & Aluminum Co 1725 Rock-

ingham Rd Davenport Iowa Nicholsen & Ce 161 First St Cambridge

Nicholson File Co Providence 1 RI Noblecraft Industries Inc 630 S W Maple St Hillsboro Ore Nopco Chemical Co Plastics Div 175

Nopce Chemical Co Plastics Div 175 Schuyler Ave N, Arlington NJ Nordahl Sliding Door Frames 180 W Al-meda Ave Burbank Cal Norge Div Borg Warner Corp Rm 234 Mdse Mart Chicago III Norman Products Co 1150 Chesapeake Ave Columbus 21 Ohio

Norman W F Sheet Metal Mfg Co Ne-vada Mo

Vada MO North American Door Co Inc PO Linden-hurst Long Island NY North Bangor Slate Co Bangor Pa North Carolina Granite Corp Mount Airy

North East Metal Products Corp Merrick North Pacific Plywood Inc 1549 Dock St Tacoma 2 Wash

Northern Conveyor Co Western Ave Janesville Wisc Northern Industries Inc 631 E Center St

Northern Industries Inc 631 E Center 5t Milwaukee 2 Wisc Northwest Door Co Div St Regts Paper Co PO Box 1477 Tacoma 1 Wash Northwest Engineering Co 135 S LaSalie St Chicago 3 III Northwest Foundry & Furnace Co 2345 SE Gladstone Portland Ore Northwest Metal Products Inc 55 Spokane St Seattle 4 Wash Northwest Shake Distributer 3117 Broadway Everett Wash Northwestern Steel & Wire Co Ave B &

Northwestern Steel & Wire Co Ave B & Wallace St Sterling Ill
Norton Co 1 New Bond St Worcester 6

Norton Door Closer Co 372 Meyer Rd Bensenville Ind Nova Sales Co 1935 Harvey Rd Trenton

NJ. NJO Novo Pump & Engine Co 702 Porter St Lansing 5 Mich Nurre Co Box 908 Bloomington Ind Nursde Metal Products Inc Box 369

NuTone Inc Red Bank & Madison Cin-Nu-Wall Mfg Co 832 N 34 St Milwaukee 8 Wise

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Oakland Foundry Co Belleville Ill O'Brien Corp 2001 W Washington South Bend 21 Ind

Ohie Foundry & Mfg Ce 629 Slack St Steubenville Ohio Ohie Lime Ce Woodville Ohio Ohio Plate Glass Ce 305 Morris St To-

ledo 4 Ohio
Ohio Stamping & Mfg Co 5103 Lakeside
Ave Cleveland 14 Ohio O'Keefe & Merritt Co 3700 East Olympic Los Angeles 23 Cal

Okonite Co 220 Passaic St Passaic NJ Oliver Corp 400 W Madison St Chicago III

Oliver Machinery Co 445 Sixth St NW Grand Rapids 2 Mich Olsen C A Mig Co Filbert St Elyria Ohio Olsen Mig Co 620-24 S Broadway Albert Lea Minn

Olympic Foundry Ce 5200 Airport Way Seattle Wash Omark Industries Inc 9701 S E McLough-lin Blvd Portland 22 Ore Onan Div of Studebaker-Packard Corp 2515 University S E Minneapolis 14

Orangeburg Mfg Co Div Flintkote Co 375
Fark Ave New York 22 NY
Orchard Bros Inc Alumarell Products Co
63 Meadow Rd Rutherford NJ

Oro Mfg Co 1425 E Michigan St Adrian

Osage Prods Co Eldon Mo Osmose Wood Preserving Co of America 980 Ellicott St Buffalo 9 NY Ostin David Moulding Corp PO Box 607

Sacramento 3 Cal

Otis Elevator Co 260 Eleventh Ave New York 1 NY

Outdoor Oven Fireplace Co 859 Windsor St Hartford I Conn verhead Door Corp PRR & Kickapoo St Hartford City Ind watenna Tool Co 134 Cedar St Owa-

tonna Minn

tonna Minn
Owensboro Sewer Pipe Co PO Box 537
Owensboro Ky
Owens-Corning Fibergias Corp 603 Madison Ave Toledo Ohio
Owens-Illinois PO Box 1035 Toledo 1

Ohio Oxford Tile Co Div of Universal Pot-teries Inc Cambridge Ohio Oxwall Tool Co Ltd 401 Park Ave S New York 16 NY

Ozan Lumber Co Prescott Ark Ozark Oak Flooring Co Bismarck Mo

Pacific Brass & Hardware Mfg Co 2442 N Chico Ave El Monte Cal Pacific Lumber Co 100 Bush St San Fran-cisco Cal

c Mercury Electronics Marketing 8345 Hayvenhurst Ave Sepulveda Pacific Cal

Cal
Pacific Mutual Door Co PO Box 1589
Washington Bidg Tacoma 1 Wash
Pacific Pre-cast Products Inc 2375 E
120th St Los Angeles 23 Cal
Pacific Pumping Co PO Box 44 Oakland
4 Cal

Pacific Tile & Porcelain Co 7716 Alondra

Pacific Tile & Percelain Co 7716 Alondra Bivd Paramount Cal Paddock of California 14606 Arminta St Van Nuys Cal Paine Co 501 Westgate Addison Ill Paine Lumber Co Ltd PO Box 1463 Louisville Ky Pak-Cel Inc 3 Malden St Natick Mass Pal-O-Pak Insulation Co Inc Hartland

Wisc

Wisc Palos Verdes Stone Dept Great Lakes Carbon Corp 612 S Flower St Los An-geles 17 Cal Panel-Lift Door Corp 1724 Chestnut St Philadelphia Pa

Panelfab Products Inc 2000 N E 146 St N Miami Fla

nelfold Doors Inc 1090 E 17 St Hia-Paragon Electric Co 1606 12th St Two Rivers Wisc

Park Teel Co PO Box 44 St Cloud Minn Parker Ira & Sons 552 N Main St Osh-kosh Wisc

Parker Mfg Co 149 Washington St Worcester Mass

ranker Mig Co 149 Washington St Worcester Mass
Parker S Hawe Mig Corp 27 Ludlow St
New York 2 NY
Parker & Sons Shake Mill PO Box 32
Copalis Beach Wash
Parkwood Laminates Inc 134 Water St
Wakefield Mass
Parr Paint & Color Co 18400 Syracuse
Ave Cleveland 10 Ohio
Parsons Co Div Keehring Co 200 North
Eighth Ave E, Newton Iowa
Pass & Seymour Inc Solvay Station
Syracuse NY
Patent Scaffelding Co 38-21 Twelfth St
Long Island City NY
Patten J V Co 550 DeKalb Ave Sycamore III
Patton Pa
Patton Pa

Patton Clay Mfg Co Terra Cotta Ave Patton Pa
Paxton Brick Co Paxtonville Pa
Paxton Frank Lumber Co 6311 St John Ave Kansas City Mo
Payne Co Box 2222 Lapuente Cal
Pease Woodwork Co Inc 900 Forest Ave
Hamilton Ohio
Peaslee-Gaulbert Paint & Varnish Co
223 N 15 St Louisville Ky
Pebbco Industries Inc Fruitville Rd Lancaster Pa

caster Pa Pecora Inc 300 W Sedgley Ave Philadel-

phia 40 Pa Peerless Electric Div H K Porter Co Inc 1401 W Market St Warren Ohio Peerless Heater Co Spring & Shaeffer

Bovertown Pa cerless Level & Tool Co 104 Third Ave Sterling Ill

Peerless Mfg Co Inc 2100 N Eleventh St Reading Pa verless Pump Hydronamics Div 301 West Ave 26 Los Angeles 31 Cal

AMERICAN BUILDER

Peerless-Wood Products 2760 Junction Detroit Mich Pemko Mfg Co 5755 Landregan St Emery-ville Cal Pemline Mfg Co 2000 The Almeda Santa Clara Cal Penberthy Mfg Co 2660 E. Grand Blvd Prophetstown III Penetray Corp 615 Front St Toledo 5 Ohio Peninsula Plywood Corp Marine Drive Port Angeles Wash Peninsula Tool Co Inc 1200 34th Ave Menominee Mich Penn-Akron Corp 32-01 57th St Woodside Penn Centrals Inc Goshen Ind Penn Crete Prods Co 4528 Taeony Sts Philadelphia 24 Pa Penn Metal Co Inc 40 Central St Boston Mans Mass
Pennsalt Chemicals Corp Three Penn
Center Philadelphia 2 Pa
Pennsylvania Furnace & Iron Ce 316 Pine
St Warren Pa
Pennsylvania Wire Glass Co 1612 Market St Philadelphia 3 Pa
Peoria Brick & Tile Co PO Box 515
Peoria Ill Perfect-Line Mfg Corp Old Country Rd Hicksyille NY Micksyllie NY
Perfection Industries Div Hupp Corp 1135
Ivanhoe Rd Cleveland 10 Ohio
Perma-Jack Corp 1113 E 200 St Cleveland 17 Ohio Perma-Stone Co 719 E Hudson St Columbus 11 Ohio Permagle Corp of America 34-43 56th St Woodside 77 NY Permanente Cement Co 300 Lakeside Drive Oakland Cal Drive Oakland Call
Permittee o Inc PO Box 206 Station A
Dayton 3 Ohio
Permutit Co Div Pfaudler Permutit Inc
50 W 44 St New York 36 NY
Perrine Industries Inc 5555 N W 36 Ave Miami Fla Peters Jas & Son 1934 N Front St Philadelphia Pa
Peterson D J Co Inc Sheboygan Wisc
Peterson Robert H Co 2835 Sierra
Grande St Pasadena Cal
Peterson Window Corp 722 Livernois
Ferndale 20 Mich
Petterson J C Corp 116 S Stoneman Ave
Athambra Cai
Phelan-Faust Paint Mfg Co 932 Loughborough St Louis 11 Mo
Phelps Dedge Copper Prods Corp 300
Park Ave New York 22 NY
Phenix Mfg Co Inc 4129 N Point Washington Ave Milwaukee 12 Wisc
Philadelphia Screen Mfg Co Philadelphia
43 Pa Peters Jas & Son 1934 N Front St Phila-Philee Corp Tioga & C Sts Philadelphia 34 Pa Phillips Drill Co Highway 12 Michigan City Ind Phillips Ryhne Lumber Co Inc PO Box 257 Brookhaven Mins Pickens Hardwood F Pickens SC Flooring Co Inc Pickering Lumber Corp Standard Cal Pickett Products Inc 1111 S Fremont Ave Pieneer Gen E Motor Corp 5841 W Dickens Ave Chicago 39 Ill Pieneering Mig Co 3131 San Fernando Rd Los Angeles 65 Cal Pioneer Plastics Corp 28 Goodhue St Salem Mass Pitman Mfg Co Grandview Mo Pittsburgh Corning Corp 1 Gateway Cen-ter Pittsburgh 22 Pa Pittsburgh Plate Glass Co 632 Fort Duquesne Pittsburgh 22 Pa Pittsburgh Steel Products Div Pittsburgh Steel Co PO Box 118 Pittsburgh Pa Plastece Ine PO Box 9123 Houston Tex Plasteel Products Corp PO Box 481 Washington Pa Washington Pa
Plastergen Wall Beard Co 196 Philadelphia Buffalo 7 NY
Plastering Development Center Inc 1725
W Pershing Rd Chicago 9 III
Plastic Products Co 6473 Georgia Ave
Detroit 11 Mich

Plumb Fayette R Inc 4837 James St Philadelphia 37 Pa Plyce Cerp 54 Lake St Elkhart Lake Wisc Plyfloer Inc PO Box 1481 Hattiesburg Mins Plymeld Co 12025 Brandford St Sun Valley Cal Plywall Prods Co PO Box 625 Fort Wayne Ind Plywood Co Fulton St Sumter SC
Plywood Service Inc PO Box 78 Dillard Polyplastex Un Rd Union NJ clastex United Inc 870 Springfield omeroy S H Co Inc 41 Magee Ave Stam-ford Conn ford Conn
Pomena Terra-Cotta Ce Pomona Station
Greensboro NC
Pomena Tile Mfg Co 629 N LaBrea Ave
Hollywood 38 Cal
Poolquip Mfg Inc PO Box 7483 Fort
Worth Tex
Poetatuck Corp 50 Old Stratford R Shelton Conn ton Conn Pope & Talbet Inc 3070 N West Front Portland Ore Port Austin Level & Tool Mfg Co Port Austin Mich Portable Electric Tools Inc 1200 E State Porter-Cable Machine Co 700 Marcellus 5t Syracuse 4 NY Power Line Sales Inc 540 Monterey Pass Monterey Park Cal Powernail Co 961 Montana St Chicago 14 Powers Regulator Co 3400 Oakton St Skokie 19 Ili Prager Co Inc 3 Neponset St Worcester 6 Pratt & Lambert Inc 75 Tonawanda St Buffalo 7 NY Precision Parts Corp 400 N First St Nash-ville 7 Tenn Precision Weatherstrip Co 7300 University Ave Chicago 19 Ill Ave Chicago 19 III
Precisionware Inc 78 Livingston St
Brooklyn NY
Preco Inc 6300 E Slauson Ave Los Angeles 22 Cal Prefabricated Preds Co Inc PO Box 368 Kirkland Wash iler Furnace Co Box 150 Dowagiac Prescolite Mfg Corp 2229 Fourth St Berkeley Cal Presstite Div American-Marietta Co 39th & Chouteau Aves St Louis 10 Mo Prestile Mfg Co 5850 W Ogden Ave Chi-Preway Inc 1430 Second St N Wisconsin Rapids Wisc Prime Mover Co Highway 22 East Muscarine Iowa
Preciar Products Co 16202 Sixth Ave N E
Seattle 55 Wash Producers & Distributors Inc 1321 Han-over St Allentown Pa rogress Mfg Co Inc Castor & Tulip Ave Philadelphia 34 Pa Philadelphia 34 Pa
Protection Products Mfg Co 2305 Superior
Ave Kalamazoo 99 Mich
Protective Papers Inc Union III
Protective Products Co 2701 N E University Minneapolis 18 Minn
Protectub Inc 93 Seigel St Brooklyn 6 Proto Tool Co Div Pendleton Tool Industries Inc 2209 Santa Fe Ave Los Angeles 54 Cal geles 54 Cal
Puget Sound Plywood Inc 230 East F St
Tacoma Wash
Pullman Mfg Corp 325 Hollenbeck
Rochester 21 NY
Pullum Windew Corp 12950 Lyndon Ave
Detroit 27 Mich
Puritren Corp 15 Stiles St PO Box 141
New Haven Conn
Pyle-National Co 1334 N Kostner Chicago
51 III

Ave Ferndale Mich Racine Hydraulics & Machinery Inc 2000 Albert St Racine Wisc Radeo Products Inc 3121 Skyway Drive Santa Maria Cal Radex Corp 2076 N Elston Ave Chicago Radiation Furnace Corp 230 Bond St Benton Harbor Mich Radiant-Ray Radiation Inc 464 Hartford Ave Newington Conn adecy P A & Sons E River Rd Ro ford Ohio ford Ohio Ramset Fastening System Winchester-Western Div Olin Mathieson Chem Carp 289 Winchester Ave New Haven 4 Louis 4 Mo Ranettie Mfg Co 1917 S Broadway St Louis 4 Mo Ranier Plywood Co 2142 East D St Tacoma 2 Wash Tacoma 2 Wash
Rapids-Standard Co Ine 130 Trowbridge
St Grand Rapids Mich
Rawplug Co Ine 200 Petersville Rd New
Rochelle NY
Raybestos-Manhattan Inc M R Div 61
Willett St Passaic NJ
Rayoo Products Ine Middletown Conn
Raynor Mfg Co East River Rd Dixon III
Ray-O-Lite Corp of America 316 Peachtree N E Atlanta Ga
Ready Hung Deor Corp Neil P Andertree N E Atlanta Ga Ready Hung Door Cerp Neil P Ander-son Bidg Fort Worth Tex Readybuilt Products Co 1701-23 McHenry St Baltimore 23 Md Rearden Co 7501 Page Ave St Louis 14 Red Jacket Mfg Co P O Box 270 Davenport Iowa
Redwood Sales Co 100 Bush St San
Francisco 4 Cal
Reed Comex Corp 15757 Euclid Ave
Cleveland 12 Ohio Reed Unit Fans Inc 501 N St Patrick St New Orleans 19 La Reeves Brothers Inc 1071 Sixth Ave New York 18 NY Reese Metal Weatherstrip Co 712 Park Ave Minneapolis Minn Reeves Steel & Mfg Co Div Empire-Reeves Steel Corp 6 Iron Ave Dover Ohlo Reflectal Corp Sub Borg Warner 200 S Michigan Ave Chicago 4 Ill Reflectotherm Inc 26 E University Cin-Regal Laminates Inc 1370 Ralph Ave Brooklyn NY Regal Products Corp 700 Angeneese St Harrisburg Pa Regulux Sash & Door Co 936 Bransten Rd San Carlos Cal an Carlos Cal Rehco Corp 5846 Hooper Ave Los Angeles 1 Cal Reiman & Georger Inc 1849 Harlem Rd Buffalo 12 NY Remoon Div Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY Remington Air Conditioning Div Willey St Auburn NY Remington Alum Window Corp 999 Stew-art Ave Garden City NY Remington Arms Co Inc 939 Barnum Ave Bridgeport 2 Conn Remington Rand Div Sperry Rand 315 Park Ave S New York 10 NY Rempe Co 340 N Sacramento Chicago 12 Relton Corp 99 N Lotus Ave Pasadena Cal Re-Nu-It Corp 424 West 42 St New York Pyramid Mouldings Inc 5353 W Arm-strong Chicago 46 Ill Reo Div White Motor Co 1331 S Washing-ton Lansing 20 Mich Republic Steel Corp Republic Bldg Cleve-land 1 Ohio

R C A Service Co Div of R C A Camden

R & H Guaranteed Products Co 5440 W

Cernais Rd Cicero III
R O W Window Sales Co 1301-4 Academy
Ave Ferndale Mich

51 III

Quaker State Metals Co Manheim Pike Lancaster Pa Quartz Mosaic Inc PO Box 36 Yorklyn Quicfrez Inc 165 Oak Place Fond Du Lac Quigley Co Inc 415 Madison Ave New

Plastic Woven Prods 51 Camden St Pater-

son NY
Plastimayd Corp 2204 S E Seventh Ave
Portland 14 Ore

Plexione Corp of America 2141 McCarter Hwy Newark NJ York 17 NY

Republic Steel Corp Berger Div 1038 Belden Ave N E Canton 5 Ohio

Republic Steel Corp Truscen Div 1050 Albert St Youngstown 1 Ohio

Research Products Corp 1015 E Washing-ton Madison 10 Wisc Reuten Fred Inc Closter NJ

Revco Inc Deerfield Mich

Revere Copper & Brass Inc 230 Park Ave New York 17 NY Beynolds Alumiaum Supply Co 756 W Peachtree Atlanta 3 Ga Beynolds Metals Co West Broad St Rich-

Rez Wood-Tones Inc One Gateway Center Pittsburgh Pa Rezner Mig Co David St Mercer Pa

Rice Pump & Machine Co 400 Park Ave Belgium Wisc

Rich Phil Fan Mfg Co Inc 2900 Caroline Houston 4 Tex Rich Howard B Inc Sixth St Carrollton

Bichards Wilcox Mfg Co 174 Third St Aurora III Richbilt Mfg Co 3277 Spring Grove Cin-

cinnati 25 Ohio Richkraft Co 510 N Dearborn St Chicago 10 111

Richmond Fireproof Door Co PO Box 97 Friends Station Richmond Ind Richmond Heating Equipment Home Products Group 7600 S. Kedzie Ave

Chicago 52 III Richmond Plumbing Fixtures P O Box 111 Metuchen NJ Rieter Woodwork Specialty Co 241 N Second Ave P O Box 243 Cedarburg Wisc

Rigidized Metals Corp 687 Ohio St Buffalo

Laminated Products First Natl Bank Bldg St Paul Minn
Rittenhouse Co Inc 68 East St Honeoye
Falls NY

Rittling Corp 95 Kentucky St Buffalo NY Robbins Floor Products Inc Tuscumbia

Robbins Flooring Co Reed City Mich Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio oberts Co 600 N Baldwin Park Blvd City of Industry Cal

Roberts Gordon Appliance Corp 44 Cen-tral Ave Buffalo 6 N Y

tral Ave Buffalo 6 N Y
Reberts Mfg Co Box 177-426 Shafer
Cleburne Tex
Rubertshaw Thermustat Div HobertshawFulton Controls Co Youngwood Pa
Robertson Steel & Iron Co 71 Elm St
Cincinnati 2 Ohio

obinson Clay Product Co 65 West State St Akren 9 Ohio obinson Plywood & Timber Co P O Box 904 Everett Wash

Robot Industries Inc 7041 Orchard St Dearborn Mich

Rocco Products Inc 2916 Fourth Ave Minneapolis Minn
Recform Corp 15160 W 8-Mile Rd Detroit

35 Mich
Rock Island Millwork Co Factory Div
Rock Island III

ockcote Paint Co 200 Sayre St Rock-ford Ili

ford III Rockford Brick & Tile Ce Rockford Iowa Rockwell Mfg Delta Power Tool Div 400 N Lexington Pittsburgh 8 Pa Rockwell of Randolph Inc Randolph Wisc

Rodale Manufacturing Co Inc Sixth & Minor Str Emmaus Pa Roe Justus & Sons 217 River Ave Patch-

ogue Li NY
Rehioff & Co 918 North Western Ave
Hollywood 29 Cal
Rehm & Haas Co Washington Sq Phila-

delphia 5 Pa

Geignia 5 Pa Rolatape Inc 1741 14th St PO Box 1190 Santa Monica Cal Rolscreen Co Main St Pella Iowa Romar Filter Corp 120 W Melvina St Milwaukee 12 Wisc Rome-Furney Radiator Co Canal St

Rome NY Ronan & Junzi Inc 502 S Kalamazoo Ave Marshall Mich

Root-Lowell Corp 445 N Lake Shore Drive Chicago Ill

Roper Geo D Corp Kankakee III Rosboro Lumber Co P O Box 1098 Springfield Ore

Springfield Ore
Roseman Tractor Equipment Co 2610
Crawford Ave Evanston III
Round David & Son Inc P O Box 883
Cleveland 22 Ohio
Rowe Mfg Co 614 W Third St Galesburg 711

Royal Jalousie Co 1036 E 24 St Hialeah Royal Woodwork Inc 235 S 11 St Reading

Rudeen N H Co Inc 2940 Girard Ave S

Minneapolis 8 Minn
Rudiger-Lang Co 219 International Trade
Mart New Orleans La
Rudiger-Lang Co 2701 Eighth St Berkeley

Rubatex Div of Great American Indus-tries Inc Bedford Va

Ruberoid Co 500 Fifth Ave New York 36

10 Cal Rusco Div of F C Russell Co Box 387 Pandora Ohio

ussell & Erwin Div American Hardware Corp 102 Washington St New Britain Cope

Bust-Oleum Evanston III Cerp 2425 Oakton **Rutland Fire Clay Co Curtis Ave Rutland**

d Mfg Co 2025 Factory St Kalamazoo

Rybelt Heater Ce Box 590 Ashland Ohio Ryerson Joseph T & Son 16th & Rockwell St Chicago Ill

S

Sacramenta Brick Co P O Box 843 Sacra-

& Hardware Co North Padlock Plum & Elizabeth Ave Lancaster Pa Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa

Safety-Flex Enclosures Div Woodside In-dustries 2566 Bay Rd Redwood City Cal Safety Nail Driver Corp 70 Rosalie St Clifton NJ

Safway Steel Products Inc 6228 W State St Milwaukee 13 Wisc Sager Weatherstrip & Caulking 2050 W 59 St Chicago 36 Ill

St Charles Mfg Co Tyler Rd St Charles

Saint Paul Corrugating Co S End Wa-basha St Bridge St Paul 7 Minn St Regis Paper Co Panelyte Div 150 East 42 St New York 17 NY Samcoe Wm J Iron Co 917 Military Rd Kenmore 17 NY

Samuel Stamping & Enameling Co Chattanooga Tenn San-Tex Stone Quarry Inc 4130 Broad-

San-rex Stone quarry inc also Broad-way San Antonio Tex Sands Level & Tool Co Div Harmon Mach Co Inc 225 W Lewis Wichita Kan Sanford Gri-P-Late Co PO Box 1177

Pompano Beach Fia Sani-Tep Inc 16634 S Figueroa PO Box

130 Gardena Cal Saniglas Inc Amsterdam NY Santa Anita Mfg Corp 4961 Double Drive

Sania Anta Mig Corp 4001 Double Drive Temple City Cal Sanymetal Products Co Inc 1705 Urbana Rd Cleveland 12 Ohio Sapolin Paints Inc 205 East 42 St New York 17 NY

Sargent & Co 45 Water St New Haven 9 Conn

Sargent-Gerke Co 323 West 15th Indianapolis 6 Ind asgen Derrick Co 3101 West Grand Ave Chicago 22 Ili

Saturday Evening Post Curtis Publishing Co Independence Square Philadelphia

Savogran Co PO Box 58 Norwood Mass Sawhill Tubular Products Inc Fabricating Div Sharon Pa Schalk Chemical Co 351 E Second St Los

Angeles 12 Cal Scharf J H Mfg Co 6120 Binney St Omaha Scheirich H J Co 4460 Louisville Ave

Louisville 9 Ky
Schenck William & Co Evans City Pa
Schield Bantam Co 262 Park St Wave

Schlage Lock Co 2201 Bay Shore Blvd San Francisco 24 Cal Schlegel Mig Co 1555 Jefferson Rd Rochester 23 NY

Schumacher F E Co 200 Mill St Hartville

Schwartz Mfg Co Lester Prairie Minn Screens & Fabric Metals Corp 34th St & Plank Rd N Bergen NJ

Screw & Bolt Corp of America Southing-ton Hardware Div 168 Center St South-ington Conn Sea-Chrome Inc 1032 S Gerhart Ave Los Angeles 22 Cal Seal-A-Door Co 712 N W Sixth Ave Ft Lauderdale Fla Sealtite Insulation Mfg Corp 115 Madison

Seaman-Andwall Corp Ixonia Wisc Searcy Flooring & Lumber Co Inc Searcy

Ark Seattle Cedar Lumber Mfg Co 4703 Bal-lard Ave Seattle 7 Wash Security Aluminum Co 403 Midland Ave Detroit 3 Mich

Sedeon Inc Rt 30 E Box 66 Rock Falls Ill Sedden Co Box 36 Springfield Ohio Seldlitz Paint & Varnish Co 18th & Gar-eld St Kansas City 10 Mo Selby Battersby & Co 5220 Whitby Ave Philadelphia 43 Pa

Selck Walter E & Co 223 West Hubbard Chicago 10 Ill nling-Menke Co S Nast St Merrill

Semi. Wisc

Seneca Wire & Mfg Co Fostoria Ohio Sentry Stop-A-Draft Co 715 St Clair Ave N W Cleveland 13 Ohio Sequola Manufacturing Co 1090 Brittan

Ave San Carlos Cal Servicised Prods Corp 6051 W 65 St Chi-cago 38 Ill

Servis Equipment Co PO Box 1590 1000 Singleton Blvd Dallas Tex Shadyside Foundry PO Box 507 Martins Ferry Ohio

Shake-A-Ply Co PO Box 7 N Portland

Shakertown Corp 20310 Chagrin Blvd Cleveland 22 Ohio Sheffield Bronze Paint Corp 17814 Water-loo Cleveland 19 Ohio

Sheffield Div Armoc Steel Corp Sheffield Station Kansas City 25 Mo Shelby Metal Prods Co PO Box 525 Shelby Ohlo

Shelby Spring Hinge Co Shelby Ohio Shell Chemical Co 110 W 51 St New York NY

Shepard Niles Crane & Heist Corp 410 Schuyler Ave Montour Falls NY Sherie-Wagner 125 E 57 St New York NY Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

Shopmaster Div Energy Mfg Co 100 N Main St Monticello Iowa Shower Door Co of America 1 Perma-lume Pl N W Atlanta 18 Ga Showerfold Door Corp 5858 N Pulaski Rd

Chicago 46 Ill

Signode Steel Strapping Co 2600 N West-ern Ave Dept 113 ABD Chicago 47 Ill Sika Chemical Corp 35 Gregory Ave ensale NJ Silent Glow Oil Burner Co 850 Windsor

St Hartford Conn
Silent Holst & Crane Co 841 63rd St
Brooklyn NY Div Union Carbide 270 Park

Ave New York 17 NY
Silicone Products Dept General Electric
Co Waterford NY
Silver Bells Ltd PO Box 982 Carmel Cal
Silver Line Co 10 Boright Ave Kenilworth NJ

Silvercote Prods Inc 161 E Erie Chicago

Silvray Lighting Inc 100 West Main St Bound Brook NJ Simmonds Abrasive Co Tacony & Fraley St Philadelphia Pa Simonds Saw & Steel Co 470 Main St

Fitchburg Mass Simplex Forms System Inc 5685 Industrial Ave Rockford III Simplex Level Co PO Box 215 Hanover

Mich impson Mark Mfg Co Inc 32-28 49th St LIC 3 NY

Simpson Timber Co Bldg Seattle 1 Wash Ce 2000 Washington

Sin-Jin Products Co 5236-40 Fairlawn Ave Baltimore 15 Md Skil Corp 5033 Elston Ave Chicago 3 Ill

Skuttle Mfg Co 140-150 Summit Milford Mich Skyline Industries Sales Inc 1900 Skyline

Dr Titusville Pa Slant-Fin Radiator Corp 130-15 89th Rd

Richmond Hill NY Slaymaker Lock Co 115 S W End Ave Lancaster Pa

Slide-View Door & Window Co 1547 N Tyler Ave El Monte Cal Slidewall Co 1940 N North Branch Chi-

an Valve Co 4300 W Lake St Chicago 24 TH ith A O Corp Permaglas Div PO Box

28 Kankukee Ill mith Alexander 295 Fifth Ave New York

Smith-Corona Marchant Inc 410 Park Ave New York 22 NY

Ave New York 22 NY
Smith H B Ce Westfield Mass
Smith J Lee & Co Inc PO Box 185 North
Brunswick NJ
Smith & Loveless Div Union Tank Car
Ce Lenexa Kan

Smith M R Shingle Co Box 2067 Seattle

Smith T L Co 2835 N 32 St Milwaukee

Smith W T Lumber Co Chapman Ala Smith Heist Mfg Cassopolis 6 Mich Box Ce PO Smoot-Holman Co PO Box 4097 Ingle-

wood Cal Smooth-On Mfg Co 574 Communipaw Jersey City 4 NJ Snelistrom Lumber Co PO Box 449

Eugene Ore

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Solvay Process-Allied Chem Dye 61
Broadway New York 6 NY
Sommer Metal Craft Corp 315 Poston
Drive Crawfordsville Ind
Sonneborn Chemical & Refining Corp 404
Park Ave S, New York 16 NY
Sonoco Prods Co Construction Prod Div
South 3t Hartsville SC
Soas Mig Co PO Box 38 Harper Station
Detroit 13 Mich
Sound Sidewall Shake Co PO Box 538

Sound Sidewall Shake Co PO Box 538 Winlock Wash

Southern Cement Co American-Marietta 605 Protective Life Birmingham 3 Ala Southern Mill & Mfg Co S25 S Troost Tulsa 1 Okla

Southern Pine Lumber Co Diboli Tex Southern Plaswood Corp PO Box 123

Hope Ark
Southern Sash Sales & Supply Co 818
20th St Sheffield Ala
Southern Screw Co Box 1360 Statesville

Southwestern Plastic Pipe Co Box 117 Mineral Wells Tex Southwood Corp 4400 Marsalis PO Box 7385 Fort Worth Tex

Nations Plaza New York NY
Spanall of the Americas Inc 787 United
Nations Plaza New York NY
Spanjers A J Co 6351 N Lilac Drive Minneapolis Minn
Speakman Co 30th & Spruce Sts Wilmington 90 Del
Speakly Tool Manufacturer 232 C T

mington 99 Del
Specialty Tool Manufacturers 732 S Illinois St Belleville III
Speed Queen Div McGraw-Edison Co
PO Box 332 Ripon Wisc
Speedway Mig Div Thor Power Tool Co
1421 Barnadale Rd La Grange Park III
Spencer Heater Lycoming Div-Avco 652
Oliver St Williamsport Pa
Spokane Sash & Door Co PO Box 63
Srokane Wash

Spokane Wash

Spotnails Inc 1527 Lyons Evanston Ili Sprayton Equipment Co Box 286 Frank-lin Mich

Square D Co Distribution Equipment Div

Square D Co Distribution Equipment Div 1601 Mercer Rd Lexington Ky Stamford Walipaper Co Inc 153 Green-wich Ave Stamford Conn Standard Brick & Tile Corp 123 N W Fourth St Evansville 8 Ind Standard Building Products Co 621 Mc-Donald Ave Brooklyn 18 NY Standard Coated Prods Inc Buchanan NY Standard Dry Wall Products Inc PO Box X New Eagle Pa Standard Electric Mig Co Inc Haddon Ave W Berlin NJ

Ave W Berlin NJ
Standard Paste & Glue Co Inc 3620 W 38
St Chicago 32 Ill
Standard Register Co Campbell & Albany
Dayton 1 Ohio

Dayton 1 Ohio
Standard Steel Cabinet Co 3711 N Milwaukee Chicago Ill
Standard Steel Works Inc 16th & Howell
N Kanass City Mo
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island NY
Standard Veneer & Timber Co PO Box
578 Crescent City Cal
Stanley Electric Tools 480 Myrtle St New
Britain Conn

Britain Conn Stanley Hardware Div of Stanley Works New Britain Conn

Stanley Tools 111 Elm St New Britain

tanscrew Fasteners Div Standard Screw Co 2901 W Washington Blvd Bellwood m

Stanthony Corp 5341 San Fernando Rd West, Los Angeles 39 Cal Star Expansion Industries Corp Moun-tainville NY

Startine Inc 300 W Front St Harvard Ill Starrett L S Co 1-165 Crescent St Athol

Mass State Metal Awnings Inc 131 Shonnard

State Steel Industries Inc 17900 E Valley
Blvd PO Box F 1 City of Industry Cal
Sta-Tite Inc 4020 N Port Washington Ave
Milwaukee 12 Wisc

Stay-Tite Products Co 9400 Steinway Ave Cleveland 4 Ohio

Cleveland 4 Onio Steel Partitions Inc PO Box 867 James-town NY Steel Scaffolding Co Uniontown Pa Steelcote Mig Co 3418 Gratiot St St Louis

3 Mo

J Mo
Steeleraft Mig Co 9017 Blue Ash Rd Cincinnati 42 Ohio
Steehens-Adamson Mig Co 274 Ridgeway Ave Aurora III
Sterling Alderfer Co 3850 Granger Rd Akron 13 Ohio
Sterling Faucet Co Morgantown W Va
Sterling Faucet Co Morgantown W Va
Sterling Guality Products Inc 184 Commercial St Malden 48 Mass
Stewart Industries Inc 1820 E St Joseph Indianapolis Ind
Stewart Iron Works Inc 2218 Stewart
Block Cincinnati 1 Ohio
Stewart 8 J Electric 527-531 St Joseph New Orleans 12 La
Stewart-Warner Corp Heating & Air

Stewart-Warner Corp Heating & Air Conditioning Div Lebanon Ind Stiglits Corp 2007 Portland Ave Louis-

Stiglitz Corp 2007 Portland Ave Louis-ville Ky
Stic-Klip Mfg Co Inc 50 Regent St Cam-bridge Mass
Stillwater Clay Products Co 20800 Cen-ter Ridge Rd Cleveland 16 Ohio
Stence Electric Preds Co 333 Monroe
Ave Kenilworth NJ
Stone Machinery Co 316 Fayette St Man-lius NY
Stone Products Co PO Boy 58 Repo New

lius NY Stone Products Co PO Box 58 Reno Nev Storm King Corp 1010 N Fourth St Mi-amisburg Ohio Stortz John & Son Inc 210 Vine St Phila-delphia 6 Pa

Stove Works Inc 131 S Union St Middle-town Pa Stew Mig Co 272 Shear St Binghamton

Straitsville Brick Co New Straitsville O Stran-Steel Corp Div Nati Steel Corp Detroit 29 Mich Stratton Terstegge Co PO Box 311 New

Albany Ind Streator Drain Tile Co West Tenth St Streator III

Structoglas Inc 11701 Shaker Blvd Cleve-

land 20 Ohio
Structural Products Div National Starch
& Chemical Corp 750 Third Ave New
York 17 NY Studebaker-Packard Corp South Bend

Stylen Corp Summer St Box 341 Milford

Mass
Sub Zero Freezer Co Inc PO Box 2017
Madison Wisc
Suburban Propane Gas Corp Box 206
Whippany NJ
Sullivan Co The 212 E Trigg Memphis 2

Tenn

Summit Pressed Brick & Tile Co 13th & Eric Pueblo Colo Summit Sales Co PO Box 860 Everett Wash

Summitville Tiles Inc Summitville Ohio Sume Pumps Inc 23 Brown House Rd Stamford Conn

Sun Screen Products Co 2220 N Division St Spokane 21 Wash

Sun Valley Industries Inc 4532 N Elston Ave Chicago 30 Ill

Sunbeam Plastics Corp PO Box 4038 Sta-tion A Evansville Ind Suncraft Inc 1315 W Webster Ave Chi-

cago 14 Ill Sunroc Corp Glen Riddle Pa Sunset Piwood Co 6067 District Blvd Los Angeles Cal Sunwarm Inc Box 266 Kingsport Tenn Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

Super Mill Co Everett Wash

Super-Structures Inc 1015 S Jefferson Al-bert Lea Minn Superior Clay Corp Lock Drawer 352 Uhrichsville Ohis

uperior Electric Co 83 Laurel St Bris-tol Conn

tol Conn
Superior Fastener Corp 2949 Elston Ave
Chicago 18 III
Superior Fireplace Co 4325 Artesia Ave
Fullerton Cal
Superior Industries Inc 3786 Oakwood
Ave Youngstown 9 Ohio
Superior Scaffold Co 5624 Bankfield Ave
Culver City Cal
Superior Window Co 625 E Tenth Ave
Haleah Fia
Superior Window Co 625 E Tenth Ave
Haleah Fia

Hialean Fia Superwood Corp 14th Ave W & Water-front St Duluth Minn Supradur Corp of NY 122 E 42 St New York 17 NY

Supreme Products Corp 2222 S Calumet Chicago III

Chicago III
Surfco Sales Co 18927 St Clair Ave
Cleveland 16 Ohio
Swanson Mfg Co 607 S Washington
Owosso 1 Mich
Swim Queen Peol Co 2301 E Oakton St
Ablenten Maishte III

Swin Queen Peol Ce 2301 E Oakton St Arlington Heights III Swivelier Ce Inc Nanuet NY Sylvania Elec Prods Inc One 48th St Wheeling W Va Symons Clamp & Mfg Ce 4261 Diversey Ave Chicago 39 III Syntron Ce 618 Lexington Ave Homer City Pa Syrall Mfg Co 511 N State St Syracuse

Syre Steel Co 1170 N State St Girard O

Taber Bushnell Inc 395 27th Ave NE Minneapolis 18 Minn Tace Heaters Inc 1160 Cranston St Cran-

Tace Heaters Inc 1160 Cranston St Cranston 9 RI

Tait Mig Co 500 Webster St Dayton 1 O

Talk-A-Phone Co 5013 N Kedzie Ave

Chicago 25 III

Talk-A-Radio Mig Co Box 11727 Dallas

Tamblyn Systems 15 Logan St Denver 3 Colo

Tamms Industries Co 228 N LaSalle St

Tamms Industries Co 228 N Laballe St Chicago 1 Ill Tappan Co 250 Wayne St Mansfield Ohlo Tavart Co PO Box 187 Paramount Cal Taylor Bedding Mfg Co INS-Cotton Div Taylor Tex

Taylor Tex
Taylor Garage Doors Inc 19800 Fitzpatrick Detroit 28 Mich
Taylor Halsey W Co 137 North St NW,
Warren Ohio
Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa
Techbuilt Inc 127 Mt Auburn St Cambridge Mar

bridge Mass Tedrick Bros Mfg Co Inc Box 167 Kent Wash Tel-O-Post Co Pymatuning St Linesville

Temco Industrial Div Temco Electronics

Corp PO Box 6191 Dallas 22 Tex Temce Inc 4101 Charlotte Ave Nashville

9 Tenn
Tennant G H Co 721 North Lilac Dr Minneapolis 22 Minn
Tennessee Fabricating Co 1490 Grimes
St Memphis 6 Tenn
Tennessee Coal & Iron Div US Steel PO
Box 599 Fairfield Ala

Box 599 Fairfield Ala Tennessee Stone Co Inc 765 Broadway NE Knoxville 17 Tenn Tennessee Stove Works 14th & Holtzclaw Chattanooga Tenn Tennison Bros Inc 450 N Bellevue Mem-phis 4 Tenn

Tex-A-Panel Mfg Co 18848 Harry Hines Dallas Tex Texas Brick Co PO Box 510 Brownwood

Texas Vermiculite Co PO Box 6306 Dallos 22 Tex

exas Vitrified Pipe Co Box 117 Mineral Wells Tex

Texbore Cabinet Corp PO Box 93 Mineral Wells Tex Texoak Flooring Co PO Box 480 Crock-

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Thermo Rite Mig Co 323 N Arlington St

Thermo Kite Mig Co 323 N Arington St Akron 5 Ohio Ther-Me Roof Inc 3209 Texas Ave PO Box 6913 Houston 5 Tex Thilmany Pulp & Paper Co Kaukauna

Wine Wisc Thiokol Chemical Corp Trenton NJ Thomas Industries Inc 410 S Third St

Louisville 2 Ky
Thomas Industries Inc 207 E Broadway

Thomas Industries Inc 207 E Broadway Louisville 2 Ky
Thomas Industries Inc Electric Sprayit
Div 1415 Illinois Ave Sheboygan Wisc
Thomas Moulding Floor Co Inc 325 West
Huron St Chicago 10 Ill
Thompson E A Co Inc Western Merchandise Mart San Francisco 3 Cal
Thompson Obs. Electrics Co Old Warren.

homson Oak Flooring Co Old Warren-ton Rd Thomson Ga

Ther Power Tool Co State & Claim Sts Aurora Ill Three Centuries 202 E 56 St New York 22 NY

Three Rivers Plywood & Timber Dar-

rington Wash
Thrush H A & Co Peru Ind
Tibbals Flooring Co PO Box 218 Oneida

Tiffany Mfg Co Inc 3640 NW 41 St Mi-Tiffany Mig Co Inc 3840 NW 41 St Mi-anni Fla Tiger Brands Inc Sub of Basic Inc 345 Hanna Bidg Cleveland 15 Ohio Tilemaster Corp 4400 N Harlem Ave Chi-cago 31 Ill Tile-Bite Co 4195 Harvard Ave Cleve-land 5 Ohio

Tiletone Co 2323 N Wayne Ave Chicago

Tilley John S Ladders Co Inc 112 Second St Watervliet NY

Tilt-A-Door Corp 3800 East Outer Dr Detroit Mich

Detroit Mich
Timber Engineering Ce 1319 18th St NW
Washington 6 DC
Timber Fabricators Inc PO Box 760
Perry Fia
Timber Fasteners Inc 1485 Bayshore Blvd
Son Engineer Col.

San Francisco Cal er Products Co PO Box 1632 Medford Ore

Timber Structures Inc PO Box 3782 Port-land 8 Ore Tinnerman Products Inc Dept 16 PO Box

6688 Cleveland 1 Ohio Titus Mfg Corp Highway 20 W Waterloo

Toch Bres 2600 Richmond Terrace Staten Island 3 NY

Todays' Home Fawcett Publishing Corp 67 W 44 St New York 36 NY

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Toridheet Div Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio

35 Ohin
Tork Time Controls Inc 15 Grove St
Mt Vernon NY
Toro Mfg Co 3042 Snelling Ave Minneapolis 6 Minn
Touch Plate Mfg Corp PO Box 1970
Long Beach 1 Cal
Tractor Div International Harvester Co
180 N Michigan Ave Chicago III
Trade-Wind Div Robbins & Myers Inc
17755 Paramount PI Pico Rivera Cal
Trane Co Second & Cameron La Crosse
Wisc

Trege Industries Box 211 Red Oak Tex Tremce Mfg Co 10701 Shaker Blvd Cleveland 4 Ohio

Trement Lumber Co Joyce La Triangle Conduit & Cable Co Inc Triangle & Jersey Aves New Brunswick NJ Triangle Mfg Co 708 Division St Oshkosh

Wise Trimco Metal Products 6304 Olive St Rd St Louis 30 Mo

Trim Stide Inc Fulton & Potter St Farmingdale LI NY

Trimview Metal Products Metal Fabricating Div of W P Fuller & Co 600 N
Third St Covina Cal

Trion Inc 1000 Island Ave McKees Rock Triplett Lumber Co Inc Box 1764 Char-

Triplex Heating Specialty Co Inc 252 N Grant St Peru Ind

Trey Sunshade Co Grant St Trey Ohio True Temper Corp 1623 Euclid Ave Cleveland 15 Ohio

Truscon Labs Inc Grand Trunk RR De-troit Mich

troit Mich
Tubular Structures Corp of America 2960
Marsh St Los Angeles 39 Cal
Tuck-Aire Furnace Co 2045 Evans Ave
San Francisco Cal
Tucker Duck & Rubber Co 515 Garrison
Ave Ft Smith Ark

Tufcrete Co Inc 502 E Locust St Des Moines 9 Iowa

Turn-A-Bore Equipment Co PO Box 7072 5916 E Rosedale Ft Worth Tex Turner & Seymour Mfg Co Lawton St Torrington Conn

Twentieth Century Paint & Varnish 456 Driggs Ave Brooklyn 11 NY Tyee Lumber Mfg Co 765 Myrtle Ave Seattle Wash

Tyler Arthur F Co 167 Hapgood St Athol

Typhoon Air Conditioning Co Div Hupp Corp 505 Carroll St Brooklyn 15 NY Typhoon Heat Pump Co Div Hupp Corp 2001 Garcia Ave Tampa Fia

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Uhrden Inc 508 Grant St Dennison O Underwood Corp 1 Park Ave New York

Uni-Crest Div United Cork Foot of Cen-Uni-Crest Div United Cork Foot of Central Ave Kearney NJ
Unifiew Mfg Co 1525 E Lake Rd Erie Pa
Union Asbestos & Rubber Co 2900 W Vermont Blue Island III
Union Carbide Piastics Co Div Union
Carbide Corp 30 E 42nd St New York
NY

Union Insulating Co PO Box 351 Park-ersburg West Va Union Tool Co 48 E River St Orange

Union Twist Drill Co 70 Monroe St Athol

Mass
Unique Window Balance Corp 4 Taft St
South Norwalk Conn
Unistrut Prods Co 933 Washington Bivd
Chicago 7 Ill
Unit Crane & Shovel Corp 6411 W Burnham St Milwaukee 19 Wisc

Unit Structures Inc Peshtigo Wisc United Brick & Tile Co 2800 McGee Traf-

ficway Kansas City 41 Mo United Cork Companies Ft Central Ave Kearny NJ Nearny NJ United Gilsonite Laboratories 1396 Jef-ferson Ave Scranton I Pa United Industries Inc 231 S LaSalle Chi-

United Industries Inc 231 S LaSalle Chicago 4 Ill
United Metal Cabinet Corp 8 E 36 St
New York NY
United States Air Compressor Co 5300
Harvard Ave Cleveland 5 Ohio
United States Air Conditioning Corp
PO Box 360 Delaware Ohio
U S Aluminum Siding Corp 11440 W Addison St Franklin Park Ill
Inited States Ceramic Tile Co Fourth &

United States Ceramic Tile Co Fourth & Walnut Sts Canton Ohio Expansion Bolt Co 500 State St

York Pa United States Gypsum Co 300 W Adama St Chicago 6 III U S Mineral Wool Co Stanhope NJ

U S Plywood Corp California Div Shasta Operations PO Box 1688 Redding Cal United States Plywood Corp Mutual Ply-wood Operations PO Box 18 Eureka Cal

United States Plywood Corp 55 W 44 St New York 36 NY United States Register Co 344 E Burn-ham St Battle Creek Mich

United States Rubber Co 1230 Sixth Ave New York 20 NY United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa

nited States Steel Products Div US Steel 30 Rockefeller Plaza New York 20 NY

United Steel Fabricators Inc 333 Gasche St Wooster Ohio
United Steel Products Co 1820 W Old
Shakopee Rd Minneapolis Minn

Universal Atlas Cement Div US Steel Corp 100 Park Ave New York 17 NY Universal Blower Co 1055 E Lincoln St Birmingham Mich

Universal C I T Credit Corp 650 Madison Ave New York 22 NY Universal Fabricators 1785 1829 Boone Ave New York 60 NY Universal Fiberglass Industries 3920 N W 32 Ave Miami Fia Universal Form Clamp Co 1238 N Kost-ner Ave Chicago 51 III Universal Mfg Co 3333 Eastahore Hwy Richmond Cal Universal Motor Co 517 Universal Dr

Richmond Cal Universal Motor Co 517 Universal Dr Oshkosh Wise Universal Plan Service 1620 S E Ankeny St Portland 14 Ore Universal Pulleys Co Inc 330 N Mosley Wichita Kan Universal-Rundle Cerp Box 960 New Castle Castle

Universal Window Co 950 Parker St Berkeley 10 Cal Upson Co Stevens St Lockport NY Utica Radiator Corp 2201 Dwyer Ave

Utica 2 NY Utility Body Co 1530 Wood St Oakland 7 Cal

Valley Metal Prods Co Bridge St Plain-well Mich

well Mich Valspar Corp 200 Sayre St Rockford Ill Van Packer Co Div Flintkote Co 1232 McKinney Ave Chicago Heights Ill Vance Industries Inc 7401 W Wilson Ave Chicago Ill

Chicago III
Vancouver Plywood Ce 1010 Washington
Vancouver Wash
Vaughan & Bushneli Mfg Ce 135 S LaSalle Chicago 3 III
Veach-May-Wilson Inc 1199 Wright Rd

Vega Industries Inc Syracuse 5 NY Vega Industries Inc Syracuse 5 NY Velsicol Chemical Corp 330 E Grand Ave

Velsicel Chemical Corp 330 E Grand Ave Chicago 11 Ill Vent-A-Hood Co 1907 Plantation Rd Dallas 35 Tex Vento Steel Products Co Inc 250 Colo-rado Ave Buffalo 15 NY Ventrola Mig Co 501 S Chestnut St Owosso Mich Vermeer Mig Co 1448 W Washington Palla Lowe

Pella Iowa

Vermiculite-Northwest Inc 2107 N 34th Seattle Wash Vermont Marble Co Proctor Vt

Vernes Corp Columbus Ind Versa Products Co Lodi Ohio Vestal Mfg Co PO Box 152 Sweetwater Tenn

Vibro Pius Prods Inc Stanhope NJ Victaulic Co of America 835 Lehigh Ave Union NJ

Union NJ Victor Adding Machine Co 3900 N Rock-well St Chicago III Victor Inc 15 Maple Ave Paoli Pa Victor Prods Corp 901 Pope Ave Hagers-

town Md town Md
Victor Tool & Machine Corp 1207 Ann
St St Joseph Mich
Viking Mfg Corp 1747 Chester Ave
Cleveland 14 Ohio

Vikon Tile Corp Washington NJ Vinyl Plastics Inc 1825 W Erie Ave She-

Vinyi Plastics inc 1823 W Effe Ave Sne-boygan Wisc Virden John C Co 6009-6103 Longfellow Ave Cleveland 3 Ohio Virginia Glass Products Corp Martins-ville Va

Virginia Metal Products Inc Dept A 44

Orange Va
Virginia Oak Floering Co Inc PO Box
969 Pulaski Va
Visador Co 940 Visador Rd Jasper Tex
Visking Co 6733 W 65 St Chicago III
Vita-Var Corp 10 Commerce Ct Newark

Volkswagen of America Inc 476 Hudson Terrace Englewood Cliffs NJ Voss Washer Co Kellogg Iowa Vulcan Electric Co 88 Holten St Danvers

Vulcan Metal Prods Inc 2801 Sixth Ave

S Birmingham Ala Vulcan Radiator Co 775 Capitol Ave Hartford Conn

W M Products Co PO Box 631 Henderson Tex

Wabash Screen Door Co 310 S Michigan Ave Chicago 4 Ill

Witte Engine Works Oil Well Supply Div U S Steel Corp 1600 Oakland Ave Kan-sas City 26 Mo

Wedack Electric Tool Corp 4627 W Hu-ron St Chicago 44 III Welfe Products Inc 71 Eliner Ave Akren

Scotten Ave Detroit 10 Mich
Wolverine Tube Div of Calumet & Hecla
Inc 17200 Southfield Rd Allen Park

Wood Conversion Co 1st Natl Bank Bldg

St Paul 1 Minn Wood John Co Heater & Tank Div 100 Washington St Conshohocken Pa

Wood Metal Industries Kreamer Pa Wood-Mosaic Corp Parkay Div 5000 Crit-tenden Dr Louisville Ky Wood Shovel & Tool Co Box 818 Piqua

Wood Specialty Products Inc 24300 W 60 St Mountlake Terrace Wash

Wood Treating Chemicals Co 5137 South-west Ave St Louis 10 Mo Woodall Industries Inc 3500 Oakton Ave Skokie III

Woodco Corp 34th St & Plank Rd N Ber-

gen NJ
Woodmack Products Inc 1880 N Eleventh
St San Jose 12 Cal
Woodside Engineering Co 9208 Grand
Ave Franklin Pk Ill
Woodward Lee L Sons 317 Elm St Owosso
Mich

Moodward Lumber Co Joseph Vance Bldg Seattle 1 Wash Weolery Stone Co Inc PO Box 40 Bloom-ington Ind

Wooster Products Inc Spruce St Wooster

Wurdack Chemical Co 4977 Fyler Ave

St Louis 9 Mo Wyandotte Chemicals Corp Biddle Ave

X-Pande Corp 43-15 36th St Long Island

Y

Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Philadel-phia 15 Pa

Yale & Towne Mfg Co Yale Lock & Hardware Div 11 S Broadway White Plains NY

Yankee Hill Brick Mfg Co RFD 1 Lin-coln 8 Neb

Wooster Sealkete Ce Wooster Ohio

Werthington Cerp Harrison NJ Wright Prods Inc St Paul Park Minn

5 Ohio

Mich

gen NJ

Mich

Ohlo

Wyandotte Mich

City 1 NY

Wacowall Div Waco-Perter Corp 3565 Wooddale Ave Minneapolis 16 Minn Wagner Iron Works 1905 S First St Mil-waukee 1 Wisc Wagner Mfg Co 122 W First St Cedar Wagner Mig Co 122 W First of Cecar Falls Iowa Wahlstrom Bros 273 W Alameda Ave Burbank Cal Wakefield Co Vermilion Ohlo Wakefield Ce Vermillon Ohio
Waldorf Heater Co 1421 Chestnut St
Philadelphia 2 Pa
Wall Plugs Inc 8347 S Racine Chicago III
Wallace J D Co Inc Warsaw Ind
Wallace Mfg Co 10th & Fayette N Kansas City Mo
Wallboard Tool & Equipment Co 1708
Seabright Ave Long Beach Cal
Walton Laboratories Inc 1186 Grove St
Irvington 11 NJ
Walters Mfg Co 140 Pennsylvania Alle-Walters Mfg Co 140 Pennsylvania Alle-gheny City Oakmont Pa Ware Aluminum Windows Inc 3700 N W 25 St Miami Fla Warp Brothers 1100 N Cicero St Chicago Marren-Knight Co 136 N Twelfth St Philadelphia 7 Pa Warren Shade Co Inc 2907 E Hennepin Ave Minneapolis Minn Warren Tool Corp PO Box 791 Warren Wasco Products Inc Bay State Rd Cambridge 38 Mass Washburn Co 28 Union St Worcester Mass Washington Steel Prods 1940 E Eleventh Washington Steel Frozen 1980 E aleventh St Taccoma 2 Wash Waste King Corp 3300 East 50 St Los Angeles 58 Cal Watco-Dennis Corp 1756 22nd St Santa Monica Cal Waterfilm Boilers 154 Ogden Ave Jersey City NJ Waterloo Register Co Inc PO Box 147 Waterloo Iowa Watsontown Brick Co Watsontown Pa Waukesha Motor Co St Paul Ave W Waukesha Motor Co St Paul Ave Waukesha Misc Wausau Misc Wausau Metals Corp Wausau Wisc Waylife Co 20 N Wacker Dr Chicago 6 Ill Wayne Home Equipment Co Inc 301 Glasgow Ave Fort Wayne 4 Ind Weather Seal Inc 324 Wooster Rd Barberton Ohio Weatherbest Corp 986 Oliver St N Tona-wanda NY wanda NY
Weather-Bloc Co Inc 3718 N Southport
Ave Chicago 13 Ill
Weatherproof Products Corp Waldo Station Box 8498 Kansas City 14 Mo
Weber Showcase & Fixture Co PO Box
11065 Kearney Sta Los Angeles 11 Cal
Weber Veneer & Plywood Co Shawano Wisc Webster Electric Co 1900 Clark St Ra-cine Wisc Wedgwood-Holly Appliance Co 8536 Hays St Culver City Cal Weil-McLain Co Blaine St Michigan City Weil Pump Co 1530 N Fremont St Chicago 22 Ill Weis Henry Mfg Co 941 Oak St Elkhart Weiser Co 4100 Ardmore Ave South Gate Cal
Weiskittel Co Ine 4901 Pulaski Hwy
Baltimore 24 Md
Weissmuller Johnny Cinema Pools 1314
Clay St Oakland Cal
Wei-Bilt Products Co 917 Farnsworth
Bidg Memphis 1 Tenn
Welbilt Air Conditioning & Heating Corp weibit Air Conditioning & Heating Corp Farmingdale NJ Weibit Stove Co 57-18 Flushing Ave Maspeth NY Wells Aluminum Corp N Liberty Ind Wells J W Lumber Co 2231 Tenth St Mensminee Mich Wells Mfg Corp 1530 Service Rd Three Rivers Mich Wen Products Inc 5806 N W Hwy Chi-cago 31 Ill cago 31 file Co Klagg Ave Trenton NJ Werner R D Co Inc Greenville Pa Wesix Electric Heater Co 390 First St San Francisco Cal Wessels Co 1625 E Euclid Ave Detroit 11

West Virginia Brick Co PO Box 1071 Charleston W Va Western Lock Mfg Co 2075 Beigrave Huntington Pk Cal
estern Metal Specialty Div Western
Ind Inc 1211 N 62 St Milwaukee 13 Wisc Western States Stone Co PO Box 466 Santa Clara Cal Westinghouse Electric Appliance Div 246 E Fourth St Mansfield Ohio Westinghouse Electric Corp PO Box 2778
Pittsburgh Pa Westwind Mfg Co Inc 114 S Alaskan Way Westwind Mig Co Inc 114 S Alaskan Way
Seattle Wash
Weyerhaeuser Co Lumber & Plywood
Div Tacoma Bldg Tacoma 1 Wash
Weyerhaeuser Co Silvatek Div Tacoma
Bldg Tacoma 1 Wash
Weyerhaeuser Co Roddis Div Marshfield Wheeling Corrugating Co 1134 Market wheeling Corragating Co 1134 market St Wheeling W Va Wheeling Steel Corp 1134-1140 Market St Wheeling W Va Whirlpool Corp Administration Bldg US 31 St. Joseph Mich White Creek Shingle Co Rockport Wash White Motor Co 842 E 79 St Cleveland 1 Ohio White Pine Sash Co E 4005 Broadway Spokane Wash White Products Corp 98 E Main St Mid-dleville Mich White-Rodgers Co 9797 Reavis Rd St Louis 23 Mo Whiteman Mfg Co 13020 Pierce Ave Pawhitney Baxter D & Son Inc 507 Jack-son Box 3428 Greensboro NC Whitney Vincent Co PO Box 335 Sau-salito Cal Whizzer Industries Inc 350 S Sanford St Pontiac Mich Wickwire Bros Inc 189 Main St Cortland Wiegand Edwin L Co 7500 Thomas Blvd Pittsburgh 8 Pa Williams Co 650 Pleasant St Wilbur & Norwood Mass Wilcolator Co 1001 Newark Ave Eliza-beth NJ Wiley R & W Inc 119 Dearborn St Buf-falo 7 NY Wilke Metal Products Inc 1117 Drott St Schofield Wisc Willamette Valley Lumber Co Box 5 Dallas Ore Will-Burt Co Orrville Ohio Williams J L & Sons Sheridan Ark
Williams Oil-O-Matic Heating Co Div
National Union Electric Corp 851 W
Third Ave Columbus 3 Ohio
Williams Products Inc 1536 Grant St
Elkhart Ind Eikhart Ind
Williamson Co 3500 Madison Rd Cincinnati 9 Ohio
Willingham-Little Stone Div Georgia
Marbie Co 422 Fulton Federal Bidg
Atlanta 3 Ga Willis Lumber Co Inc PO Box 359 Bain-Bridge Ga Willits Redwood Products Co Box 608 Willits Cal Willys Motors Inc 940 N Cove Blvd To-ledo 1 Ohio

Wilson J G Cerp Box 599 Norfolk 1 Va Wincharger Corp East Seventh & Divi-sion Sts Sioux City Iowa Windalume Corp Rt 46 Kenvil NJ Winfield Door Corp PO Lindenhurst LI NY

Winpower Mfg Co 1225 First Ave New-ton Iowa

Winsulite Mfg Co 725 N Central Ave Baltimore 2 Md

Winter Seal Corp 14575 Meyers Rd De-troit 27 Mich

Winton Lumber Sales Co 3100 W Lake St Minneapolis 2 Minn

Wisconsin Clock Co Inc 921 S Second St Milwaukee Wisc

Wisconsin Door Co 12550 Merriman Rd Livonia Mich

Witch Marketing Co PO Box 249 Perry

Wiremeld Co Hartford 10 Conn Wisco Inc 4015 Michigan Ave Detroit 10 Mich

coin 8 Neb
Yates-American Machine Co 729 Fourth
St Beloit Wise
Yawkey Bissell Hardwood Flooring Co
White Lake Wisc
Yeck Mfg Co 579 Tecumseh St Dundee Yenkin-Majestic Paint Corp E Fifth Ave at Leonard Ave Columbus Ohio Yeomans Bros Co 1999 N Ruby St Melrose Park III York Corp Sub Borg-Warner Grantley Rd York Pa York-Shipley Inc Jessop & PRR York Pa York Wall Paper Co 750 Linden Ave Wilson Grant Inc 141 W Jackson Blvd Chicago 4 Ill

York Wall Paper Co 750 Linden Ave York Pa Young L A Spring & Wire Corp 498 Leh-man Ave Bowling Green Ohio Young Radiator Co 709 S Marquette St Racine Wisc Youngblood Lumber Co 1335 Central Ave Minn 13 Minn Minn 13 Minn Youngstown Kitchens Warren Ohio Youngstown Mfg Inc 60-66 S Prospect Youngstown Ohio Youngstown Sheet & Tube Co PO Box 900 Youngstown 1 Ohio

Zegers Inc 8090 S Chicago Ave Chicago 17 DI Zenith Metal Products Co Primos Pa Zink John Co 4401 S Peoria Tulsa 5 Okia Zinsser William & Co Inc 319 North Western Ave Chicago III Zonolite Co 135 LaSalle St Chicago 3 III Zoss Lader & Mfg Co 4901 S W Macadam Ave PO Box 808 Portland 7 Ore Zurn Industries Inc Hydromechanics Div 1881 Pittsburgh Ave Erie Pa

West Allis Concrete Prods Co 8704 W Schlinger Milwaukee Wisc

West Beatrice Color Inc 333 East 46 St New York 17 NY

Mich

HOME MANUFACTURERS DIRECTORY

In this section, prefab manufacturers are listed by state. alphabetically. For more information or literature, turn to the reply card on page 11 and circle the matching numbers.

Alabama

KINGSBERRY HOMES CORP., Fort

Payne, Ala. Firm distributes in 350 mi. radius. Has 65 basic plans. Sells through builders at prices from \$2,051 to \$8,675 f.o.b. Delivers in 14 days. Offers own financing plans.

District of Columbia

BARBER & ROSS CO., 2323 Fourth St., N.E., Washington, D.C.

N.E., Washington, D.C.

Firm distributes in four states. Has seven basic plans. Sells through dealers or to builders at prices from \$2,390 to \$8,000 f.o.b, Delivers in ten days. Offers various financing methods. Catalog describes package which includes basic materials, blueprints, foundation and erection plans.

Circle No. 358 on reply card, p. 11

Florida

PANELFAB PRODUCTS, INC., 2000 N.E.

146 St., North Miami, Fla.

Firm distributes nationally, has "no limit" on number of basic plans. Sells through builders and dealers at prices from \$2,000 to \$15,000 f.o.b. Delivers in 30 days. og describes modular panelized cot-houses and buildings. Circle No. 359 on reply card, p. 11

Georgia

KNOX HOMES CORP., 125 Fulton Fed-

KNOX HOMES CORP., 125 Fulton Federal Bldg., Atlanta, Ga.
Firm has 30 basic plans. Sells through franchised builders at prices from \$3,750 to \$6,000 f.o.b. Delivers in two weeks.
Offers own financing plan. Literature consists of sheets that show designs by number with floor plans on reverse side.

Circle No. 360 on reply card, p. 11

Illinois

W. G. BEST HOMES CORP., U.S. Route

W. G. BEST HOMES CORP., U.S. Route 45 S., Effingham, III. Firm distributes in 350 mi. radius. Has 30 basic plans. Sells through franchised builder-dealers at prices from \$2,500 to \$7,000 f.o.b. Delivers in 10 days. Offers financing through subsidiary mortgage firm. Eleven-page catalog of floor plans and elevations is available. Circle No. 361 on reply card, p. 11

CMC HOMES INC., 6306 N. Cicero Ave.,

Chicago, III.

Firm distributes in 1,500 mi. radius. Has 52 basic plans. Sells to builders at prices from \$2,700 to \$5,900 f.o.b. Delivers in "a few days." Uses conventional financing. few days." Uses conventional financing. Catalogs are available for a wide variety of house plans. Circle No. 362 on reply card, p. 11

CRAFT WAY INC., 850 Rathbone Ave-

nue, Aurora, III. Firm distributes in 300 mi. radius. Has Is basic plans, Sells through dealers or to builders at prices from \$2,800 to \$8,000 f.o.b. Delivers in ten days. Offers own fi-nancing plan. Photos and floor plans of most popular models are available.

THURO BILT HOMES, Thuro Bilt Products, Inc., Fairbury, Ill. Firm distributes in \$50 mi. radius, has 25 basic plans. Sells to builders at prices ranging from \$1,900 to \$12,000 f.o.b. De-livers in 10 to 14 days. Financing assistance

includes land acquisition, development money, and construction. complete information.

Indiana

ALLEN INDUSTRIES, INC., P.O. Box 2497, Station C, Fort Wayne, Ind.
Firm distributes in 350 mi. radius, has 27 basic plans. Sells through builders at prices from \$1,960 to \$8,000 f.o.b. and delivers in seven days. Thick catalog made available only after interview.

COLPAERT HOMES, INC., 445 N. Sheri-

dan, South Bend 19, Ind.
Firm distributes in 150 mi. radius, has 14 basic plans. Sells to franchised builder-dealers at prices from \$2,100 to \$3,500 f.o.b. Delivers in 14 days. Offers financing through acceptance firm. Complete litera-ture kit is available.

GENERAL HOMES, DIVISION OF GEN-ERAL INDUSTRIES, INC., 3033 Wayne Terrace, Fort Wayne, Ind. Firm distributes in 450 mi. radius. Has 10 basic plans. Sells through dealers at prices from \$4,350 to \$5,240 f.o.b. Delivers in 14 days. Offers own financing plan. Literature describes package of stressed skin construction as totally prefabricated, gives variety of styles, elevations. Circle No. 363 on reply card, p. 11

KAHLER-CRAFT HOMES CORP., Lafay-

Firm distributes in 1,000 mi. radius, has great variety of floor plans. Sells through franchised dealers at prices from \$5,500 to \$5,000 f.o.b. Delivers in ten days. Offers "customer participation" financing plan. Literature is available. ture is available.

Circle No. 364 on reply card, p. 11

NATIONAL HOMES CORP., Lafayette,

Firm distributes nationally, has 186 basic plans. Sells through builder-dealers at prices from \$2,750 up, f.o.b. Delivers after Il days for processing order. Offers own financing plan. Literature describes basic package of exterior and interior panels, roof trusses, gable ends and other primary components.

Circle No. 365 on reply card, p. 11

NEW CENTURY HOMES, INC., P.O. Box

NEW CENTURY HOMES, INC., P.O. BOX 825, Lafayette, Ind. Firm distributes in seven states, and has seven basic plans. Sells through dealers at prices from \$2,500 to \$4,500 f.o.b. Delivers 10 days after order. Offers conventional financing methods. Catalog shows models in color, floor plans, design variations. Sheet describes parts of house package. Circle No. 366 on reply card, p. 11

PLACE HOMES, INC., 1212 S. Walnut St.,

South Bend 21, Ind.

South Bend 21, Ind.

Firm distributes in 600 mi. radius, has

11 basic plans. Sells through franchised
builder-dealers at prices from \$2,225 to
\$4,815 f.o.b. Offers financing through own
acceptance firm. Separate literature on 11
series of homes is available.

Circle No. 367 on reply card, p. 11

RICHMOND HOMES, INC., N.W. "L" & Sheridan Sts., Richmond, Ind. Firm distributes in 500 mi. radius. Has

40 basic plans. Sells through franchised dealers at prices from \$2,560 to \$4,565 f.o.b. Delivers in eight days. Offers own financing plan. Literature features floor

plan, most popular elevation and cost-cut-ting features of each model. eatures of each model. Circle No. 368 on reply card, p. 11

ROYAL HOMES, INC., 1140 Hayden St.,

Firm distributes in 300 mi. radius, has 15 basic plans. Sells to builders only at prices from \$3,000 to \$9,000 f.o.b. Delivers in one week. Offers own package and con-struction financing plan.

Circle No. 369 on reply card, p. 11

KOZY MFG. CO., Exira, Iowa
Firm distributes in 450 mi. radius. Has
45 basic plans. Sells through dealers or
to builders at prices from \$3,000 to \$15,000
f.o.b. Delivers in two weeks. Offers financing source. Literature is available.

Kansas

STANDARD HOMES DIVISION, R. L. Sweet Lumber Co., 4500 Roe Blvd., Kansas

Sweet Lumber co., City 3, Kan.
Firm distributes in 500 mi. area. Has 11 basic plans. Sells to builders at prices from \$5,000 to \$7,000 f.o.b. Delivers in 14 days. Uses regular financing channels. Four-color, 80-page catalog available.

Louisiana

CRAWFORD CORPORATION, 7111 Flor-ida Blvd. (Drawer 2551), Baton Rouge, La. Distributes in 500 mi. radius. Firm has 27 basic plans. Sells through franchised builders at prices from \$1,999 to \$9,595 f.o.b. Delivers ten days after receipt of order. Offers interim and permanent fi-nancing. Six-volume library available to franchised builders on loan basis.

MORGAN C. ELMER, INC., Rockland,

Firm distributes in 500 mi. radius. Has custom fabrication to any plan. Sells through dealers and to builders at prices from \$2,000 to \$7,000, f.o.b. Delivers in two weeks. Literature is available on package containing complete exterior, except roof shingles, and interior studded panels

Maryland

GOLDEN KEY HOMES INC., Howard County, Annapolis Junction, Md. Firm distributes in 350 mi. radius. Has 12 basic plans. Sells at prices from \$2,000 to \$10,000 f.o.b. Delivers in two to three weeks. Uses regular financing channels.

MARYLAND HOUSING CORP., 5715 Southwestern Blvd., Baltimore 27, Md. Firm distributes in 150 mi. radius. Has 12 basic plans. Sells to builders at prices from \$1,900 to \$6,000 f.o.b. Delivers in ten to 30 days. Uses regular financing. Catalog gives floor plans, drawings, a look at all models. Basic package consists of pre-cut floor assembly, sheathed exterior panels,

PRECISION QUALITY BUILT HOMES, INC., Milford Mili Rd. & W. Md. RR,

Baltimore, Md. Firm distributes in 200 mi. radius. Has

100 basic plans. Sells through dealers or to builders at prices from \$2,175 to \$8,750 f.o.b. Delivers in about three weeks. Uses regular financing methods. Catalog sheets, punched for a looseleaf, give floor plans, drawings, elevations, features of each drawings,

Massachusetts

ASSEMBLED HOMES, INC., 40 Holton

Kt., Winchester, Mass.
Firm distributes in 300 mi. radius. Has 20 hasic plans. Sells through dealers and builders at prices from \$2,300 to \$5,800 f.o.b. Delivers in ten days. Offers interim financing. Color brochure and cost analysis sheets of finished house are available.

FRANKLIN HOMES, INC., 65 Dean St., Franklin, Mass.

Franklin, Mass.

Firm distributes in New England states.

Has 25 basic plans. Sells through dealers or to builders at prices from \$1,700 to \$7,000 up, f.o.b. Delivers in three weeks.

Bank does financing. Literature is available on package that consists of pre-cut and pre-assembled joists and sub flooring, roof trusses, gables and interior partitions, etc.

Circle No. 370 on reply card, p. 11

Circle No. 370 on reply card, p. 11
HODGSON HOUSES, INC., Dover, Mass.
Firm distributes in 350 mi. radius. Has 26 basic plans. Sells to builders or through dealers at prices from \$3,000 to \$9,000 f.o.b. Delivers in two weeks. Financing is done through bank assignment. Catalog contains sheets which illustrate design variations of model, give floor plans and check list of optional items.
Circle No. 371 on reply card, p. 11
PRE-BILT CONSTRUCTION CO. INC.

PRE-BILT CONSTRUCTION CO., INC., 585 State Rd., Rt. 6, N. Dartmouth, Mass. Firm distributes in 200 mi. radius, has 30 basic plans. Sells through dealers at prices from \$2,500 to \$10,000 f.o.b. Delivers in 15 days. Literature is available on package which consists of room-size exterior panels complete with siding.

TECHBUILT, INC., 127 Mt. Auburn St.,

TECHBUILT, INC., 127 Mt. August 5t., Cambridge, Mass.

Firm distributes east of Mississippi river. Has 19 basic plans plus unlimited number of component variations. Sells through dealers and builders at prices from \$1,980 to \$11,450 f.o.b. Delivers in 21 days. Literature includes consumer brochure, reprinted articles, technical manual.

Circle No. 372 on reply card, p. 11

Michigan ALADDIN CO

ALADDIN COMPANY, 212 Davidson Bldg. Bay City, Mich. Firm distributes nationally, has 115 basic

plans. Sells to individuals at prices from \$3,000 to \$8,000 f.o.b. Delivers in ten days. Catalog describes package that features everything from foundation up, except plumbing, heating, lighting. Color drawings, floor plans, a look at many models.

ings, floor plans, a look at many models.

GUERDON INDUSTRIES, INC., Van

Dyke Rd., Marlette, Mich.

Firm distributes nationally, has eight
basic plans. Sells at \$7,490 f.o.b. all plants.

Delivers in ten days. Offers interim financing only. Brochure is available on request.

Circle No. \$73 on reply card, p. 11

Circle No. 573 on reply card, p. 11
LIBERTY READY-CUT HOMES, 1012
Lafayette Ave., Bay City, Mich.
Firm distributes nationally, including
Alaska. Sells to builders at prices from
\$3,000 up. f.o.b. Delivers in 10 to 12 days.
Uses local financing. Catalogs describe
package of ready-cut materials, exclusive of
masonry, heating, lighting, plumbing.

LYTLE MODERN HOMES, INC., 7742

LYTLE MODERN HOMES, INC., 7742 Greenfield, Dearborn, Mich.
Firm distributes in 500 mi. radius. Has ten basic plans. Sells to builders at prices from \$2.200 to \$6.000 f.o.b. Delivers in two weeks. Assists in obtaining financing. Catalog sheets show models in color, floor plans, special features.

MANUFACTURED HOMES INC., 330 S.

MANUFACTURED HOMES INC., 330 S. Kalamazoo Ave., Marshall, Mich.
Firm distributes in 500 ml. radius. Has 70 basic plans. Sells through dealers or to builders at prices from \$1,200 to \$10,000 f.o.b. Delivers in seven days. Offers own financing plan. Catalog shows some of the models available. Firm also sells modular namels separately. panels separately.

MICHIGAN LUMBER FABRICATORS,

INC., 613 Fisher Bidg., Detroit, Mich. Firm distributes in Michigan. Has 48 basic plans. Sells to builders at \$10,000 price f.o.b. Delivers in 30 days. Offers own financing plan. Literature describes package which is complete except for electrical and rough plumbing.

and rough plumbing.

SEMICO INC., Box 8, Seney, Mich.

Firm distributes in 450 mi radius. Has

54 basic plans. Sells to builders at prices
from \$2,400 to \$8,300 f.o.b. Delivers in
ten days. Offers own financing plan. Catalog describes package, gives floor plans,
construction details.

construction details.

SERVICE HOME MFG. CO., 6521 S. Division, Grand Rapids 8, Mich.

Firm distributes in two states. Has 30 basic plans. Sells through builder-dealers at prices from \$2,000 to \$15,000 f.o.b. Delivers in ten daya. Offers own financing plan. Catalog includes many sheets giving drawings and floor plans.

UNIVERSAL HOMES, INC., 271 First St.,

Milan, Mich. Firm distributes in six states. Has custon plans or will fabricate to builder's plans. Sells through builder-dealers. Delivers in two weeks. Catalog gives specifications, prices of basic package, and features floor plans, drawings, variety of models.

Minnesota

PACKAGE HOMES, INC., 3-Sixth Ave.
South, Hopkins, Minn.

Firm distributes in 500 mi. radius. Has
97 basic plans. Sells to builders at prices
from \$3,450 to \$6,800 f.o.b. Delivers in two weeks. Offers own financing plan. Litera-ture describes package as a complete precut operation.

PAGE & HILL HOMES, INC., Albert

Lea, Minn.

Firm distributes in 14 states. Has 50 basic plans. Sells through dealers or to builders at prices from \$2,200 to \$8,000 f.o.b. (Free delivery up to 200 mi.) Delivers in 14 days. Offers own financing plan. Catalog shows many models, floor plans, variations, outstanding features.

Missouri

HOME BUILDING CORPORATION, 303

. Park Ave., Sedalia, Mo. Firm distributes in 500 mi. radius. Has Firm distributes in 500 ml. radius. Has ten basic plans. Sells through dealers or to builders at prices from \$5,000 to \$10,000 f.o.b. Delivers in 15 to 45 days. Catalog gives floor plans, drawings, photos of fin-ished interiors and optional extras.

MODULAR HOMES, INC., Rt. 13, Kirk-

MODULAR HOMES, INC., Rt. 13, Kirk-wood 22, Mo. Firm distributes in 600 mi. radius. Has "unlimited" number of basic plans. Sells through dealers or to builders at prices from \$4,700 to \$16,000 f.o.b. Delivers in seven to 10 days. Uses regular financing methods. Catalog features photos of interiors and exteriors, drawings, floor plans. Circle No. 374 on reply card, p. 11

WILSON HOMES, INC., Box 6037, Lambert Airport Branch, St. Louis 24, Mo.
Firm distributes in 300 mi. radius. Features 15 basic plans. Sells to builders at \$1,500 and up, Lo.b. Delivers in ten days. Catalog contains floor plans, elevations of available models.

Montana

NATIONAL LOG CONSTRUCTION CO. OF MONTANA, Box 68, Thompson Falls,

Mont.

Firm distributes nationally, has 50 basic plans. Sells through builder-dealers at prices from \$900 to \$17,000 f.o.b. Delivers in ten days. Uses regular financing methods. Catalog shows many models, floor plans, elevations. Describes package as one that can be pre-cut to fit almost any plan.

Nebraska

PRODUCTION SALES CO., 2719 Wash-

PRODUCTION SALES CO., 2719 Washington St., Lincoln, Nebr.
Firm distributes in 500 mi. radius, has 24 basic plans. Sells through builder-dealers at prices from \$5,000 to \$7,500 f.o.b. Delivers in three weeks. Package consists of pre-cut joists and sub-floor; average roomsize wall panels; roof sheathing in plywood.

New Jersey
PRESIDENTIAL HOMES, INC., Pember-

PRESIDENTIAL HOMES, INC., Femberton, N.J.
Firm distributes in 400 mi. radius. Has 150 basic plans. Sells through dealers or to builders at average price of \$5,800 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Literature describes package of panelized vertical members, pre-cut horizontal members.

Circle No. 375 on reply card, p. 11

New York

ALLEGHANY HOMES CORP., 26 Cope-

land Ave., Homer, N.Y.
Firm distributes in 400 mi. radius. Has
24 basic plans. Sells through dealers or to
builders at prices from \$2,100 to \$11,000
f.o.b. Delivers in 7 to 14 days. Uses regular financing. Literature describes package of 2x4 stud panels, with insulation, sheathing; roof trusses; complete floor system.

BENNETT LUMBER CORP., 190 Oliver

BENNETT LUMBER CORP., 190 Oliver St., North Tonawanda, N.Y. Firm distributes in 500 mi. radius. Has about 75 basic plans. Sells through fran-chised representatives and to builders. De-livers in 5 to 15 days. Thick annual catalog is available on request.

is available on request.

BUSH HOMES, INC., Second St. & Lenox Rd., Huntington Station, L.I., N.Y.

Firm distributes in 350 mi. radius. Has 34 basic plans. Sells through builder-dealers at prices from \$1,941 to \$12,179 f.o.b. Delivers in three weeks. Uses regular financing methods. Catalog describes package of panelized sheathed walls, doors and windows installed. Drawings, floor plans of models included.

Circle No. 376 on reply card, p. 11

Uron B. Ford, 1NC., McDonough, N.Y.
Firm distributes in 300 mi. radius. Has
basic plans. Sells to builders at prices
from \$3,550 to \$8,500 f.o.b. Delivers in
days. Uses regular financing methods.
Catalog gives floor plans, drawings of
models.

Circle No. 377 on reply card, p. 11 NORTHERN HOMES, INC., 10 La Cross

NORTHERN HOMES, INC., 10 La Cross St., Hudson Falls, N.Y.

Firm distributes in 250 ml. radius, has 45 basic plans. Sells through builder-dealers at prices from \$1,800 to \$7,000 f.o.b. Delivers in ten days. Catalog covers three lines of houses.

SEABOARD HOMES 200 Sawmill Rd., Hawthorne, N.Y.

Firm distributes coast to coast, has 20 basic plans, each with three variations. Sells through franchised salesmen and dealers at prices from \$2,690 to \$8,690. Delivers in two Model financing available through

acceptance corp. Circle No. 378 on reply card, p. 11

DUNBAR INDUSTRIES, INC., 3810 Up-

DUNBAR INDUSTRIES, INC., 3810 Up-ton Ave., Toledo, Ohio.

Firm distributes in 400 mi. radius. Has six basic models. Sells to builders at prices from \$2.935 to \$8.275 f.o.b. Delivers in 14 days. Offers own financing plan. Literature describes package of exterior modular wall panels with sheathing, siding, insulation.

EXPAN HOMES, INC., 15411 Chatfield,

Cleveland, Ohio.

Firm distributes in Ohio. Has 12 basic plans. Sells through dealers or to builders at prices from \$2,600 to \$5,200 f.o.b. Delivers in ten days. Catalog presents floor plans, drawings of many models in compact form. Check list included.

INLAND HOMES CORPORATION, 501

South College St., Piqua, Ohio. Firm distributes in 25 states, has 24 floor plans. Sells through authorized builder-dealers at prices \$1,655 to \$6,100, f.o.b. all plants. Delivers in seven days. Financing paints. Delivers in seven days. Financing assistance covers construction and permanent mortgage; land acquisition and development; model home and model home furniture package financing. Brochures and material specs are available for each house

Circle No. 379 on reply card, p. 11 METROPOLITAN HOMES, INC., 721 W. Columbia St., Springfield, Ohio.
Firm distributes in four states. Has eight

basic plans. Sells to builders at prices fro

\$2,100 to \$8,000 f.o.b. Uses conventional financing methods. Literature describes package of full wall panels, insulating sheathing or streased skin panels.

MIDWEST HOUSES, INC., P.O. Box 334,

Mansfield, Ohio.

Firm distributes in three states. Has 12 Firm distributes in three states. Has 12 basic plans. Sells to builders at prices from \$2,800 to \$9,200 f.o.b. Delivers in two weeks. Offers own financing plan. Catalog describes package of complete carpentry material, rough and finish; gives floor plans, drawings, a look at all models. Circle No. 380 on reply card, p. 11

PEASE WOODWORK CO. INC., 900 For-

est Ave., Hamilton, Ohio. Firm distributes in 400 mi. radius. Has I fo basic plans. Sells through dealers or to builders at prices from \$3,000 to \$10,000 f.o.b. Delivers in two weeks. Offers own financing plan. Catalog describes package of factory-assembled component wall pan-els, trusses, door and window units.

SCHOLZ HOMES, INC., 2001 N. Westwood, Toledo, Ohio.

Firm distributes nationally, has 100 basic plans. Sells through dealers or to builders at prices from \$3,000 to \$15,000 f.o.b. Delivers in two to three weeks. Uses regular financing methods. Literature elaborates on package of exterior and interior panels, roofing structure, windows. Circle No. 381 on reply card, p. 11

THYER MFG. CORP., 2857 Wayne. St.,

Toledo, Ohio. Firm distributes in three states. Has 21 Firm distributes in three states. Has 21 basic plans. Sells to builders at prices from \$2,500 to \$6,000 f.o.b. Delivers in seven days. Offers own financing plan. Literature on new Lafayette series is available.

Circle No. 382 on reply card, p. 11

WEAKLEY MANUFACTURING CO., South 26th & Buckeye, Newark, Ohio. Firm distributes in four states. Has 12 basic plans. Sells through dealers or to builders at prices from \$2,300 to \$10,000 f.o.b. Delivers in three weeks. Literature describes package as fully fabricated, with exterior siding complete and primed, interior wall board primed.

Oklahoma

SOUTHERN MILL HOMES CO., P.O. Box 1087. Tulsa, Okla. Firm distributes in 400 mi. radius, has 28 basic plans. Sells to builders and dealers on nonfranchise basis at prices from \$3,500 to \$8,500 f.o.b. Delivers in 14 days. Provides assistance on interim and long-term financing, and land acquisition and development "on projects of merit." Literature shows models, flooor plans, specs.

Pennsylvania ADMIRAL HOMES, INC., 149 Water St.,

West Newton, Pa.

Firm distributes in 300 mi. radius. Has 26 basic plans. Sells through dealers or to builders at prices from \$5,000 to \$7,800 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog presents floor plans, drawings, sires of many models, de-scribes methods of building.

CRESTWOOD HOMES CO., Reynolds De-

velopment, Greenville, Pa.

Firm distributes in 150 mi. radius. Has
17 basic plans, sells to builders or dealers.
Package prices range from \$2,650 to \$13,000 f.o.b. Delivers in 14 days. Catalog features color photos of models, pictures of interiors, floor plans, drawings, construction methods.

FRANKLIN THRIFT HOMES, INC., P.O. Box 631, State College, Pa. Firm distributes nationally, has 69 basic plans. Sells through dealers or to builders at prices from \$1,600 to \$15,000 f.o.b. Delivers in 15 days. Offers own financing plan. Catalog gives floor plans for 10' wide mobile models, lists optionals, specifica-

IMPERIAL HOMES CO., 140 Water St.,

West Newton, Pa. Firm distributes in 300 mi. radius. Has 25 basic plans. Sells to builders and deal-ers. Delivers in ten days. Descriptive literature is available

NORTHERN HOMES OF PA., INC., Fifth Ave., Chambersburg, Pa.
Firm distributes in 500 mi. radius. Has 50 basic plans. Sells through dealers or to builders at prices from \$1,500 to \$10,000 f.o.b. Delivers in 10 to 14 days. Catalog gives floor plans, color sketches, photos of models, describes package, specifications.
Circle No. 583 on reply card, p. 11

SHOWCASE HOMES, INC., subsidiary of Iron City Sash Door Co., Mansfield Ave., Pittsburgh 5, Pa.

Firm distributes in 300 mi. radius, has seven basic plans. Sells through dealers only at prices from \$3,000 to \$10,000 f.o.b. Delivers in two to three weeks. Catalog features. Delivers in two to three weeks. Catalog features color drawing and floor plans of models, plus sketches of millwork used for

SWIFT HOMES, INC., 1 Chicago Ave., Elizabeth, Pa

Elizabeth, Pa.
Firm distributes in 600 mi. radius. Has 80 basic plans. Sells through distributors at prices from \$1,775 to \$5,295 f.o.b. Delivers in one day. Offers own financing plan. Literature describes package of exterior materials, subfloor and interior partitions, roof, windows, doors.

UNITED STATES STEEL HOMES DIVI-

UNITED STATES STEEL HOMES DIVI-SION, United States Steel Copp., 525 Wil-liam Penn Place, Pittsburgh 50, Pa. Firm distributes in 450 mi. radius of New Albany, Ind., plant. Has 10 basic models, 127 floor plans. Sells through fran-chised dealers at \$28,000 and up, f.o.b. Delivers in ten days. Offers comprehensive financing program. Eight-page brochure on floor plan, elevations. Circle No. 384 on reply card, p. 11

South Dakota

MIDWESTERN HOMES DIVISION.

MIDWESTERN HOMES DIVISION, Buckingham Wood Products, 931 East North St., Box 886, Rapid City, S.D. Firm distributes in 1,000 ml. radius, has 50 basic plans. Sells through builder-dealers at prices from \$5,995 to \$12,000 f.o.b. Delivers in ten days. Portfolio of descriptive literature is available.

Tennessee

FAIRHILL, INC., 2165 S. Latham St., Memphis 9, Tenn. Firm distributes in 450 mi. radius. Sells to franchised builders at prices from \$1,800 to \$6,000 f.o.b., and delivers in ten days. Brochure of floor plans is available.

UNIQUE HOMES, INC., 2915 Eighth Ave., Chattanooga, Tenn. Firm distributes in 100 mi. radius, has 80 basic plans. Sells to builders at prices from \$2,000 to \$20,000 f.o.b. Financing through local companies. Catalog include floor plans, description of prefab system.

HOLIDAY HOUSE MANUFACTURERS CORP., P.O. Box 8097, Fort

Firm distributes in 400 mi. radius. Has 115 basic plans. Sells to builder-dealers and delivers in ten days. Offers construction financing. Catalog includes floor plans, elevations and specifications. Circle No. 385 on reply card, p. 11

Virginia CONTINENTAL HOMES, INC., P.O. Box

CONTINENTAL HOMES, INC., P.O. Box 25, Boones Mill, Va. 50 mi. radius, has 77 basic plans. Sells through builder-dealers at prices from \$4,500 to \$14,000 f.o.b. Delivers in ten days. Offers construction and permanent financing. Catalog gives floor plans, drawings of models, color photos of basses.

LESTER BRO INC., Box 751, Martins-

ville, Virginia.

Firm distributes in 500 mi, radius. Has 35 basic plans. Sells through dealers. Delivers in ten days. Offers both construction and permanent financing. Catalog gives basic designs, construction briefs.

Washington

LOCTWALL CORPORATION, Hwy. 99, Lynwood, Wash. 16530 Firm distributes in eight states. Has 25 basic plans. Sells through dealers or to builders at prices from \$4,000 to \$15,000 to.b. Delivers in 20 days. Uses regular financing methods. Catalog gives designs, floor plans, drawings of models.

LOXIDE STRUCTURES, 9004 S. 19th St.,

Tacoma, Wash.

Firm distributes to all western states.

Alaska, Hawaii. Has 40 basic plans. Sells through dealers or to builders at prices from \$1,140 to \$8,90 f.o.b. Delivers in two weeks. Uses regular financing methods. Catalog lists general specifications, shows floor plan and alternate for various models.

VIRGINIA LEE HOMES, INC., Box 606, Kirkland, Wash.

Firm distributes to Northwest, Alaska, Firm distributes to Northwest, Alaska, Hawaii. Has 200 basic plans. Sells through dealers or to builders at prices from \$1,800 to \$6,500 f.o.b. Delivers in 10 to 14 days. Uses regular financing methods. Catalog shows variety of model drawings, floor plans, exterior photos.

WEST COAST MILLS, 555 State St., Chehalis, Wash. Firm distributes nationally. Has 115 ba-

sic plans. Sells through dealers or to build-ers at prices from \$2,000 to \$4,000 f.o.b. Delivers in ten days. Catalog details con-struction system, specifications, drawings and floor plans for many models. Circle No. 386 on reply card, p. 11

West Virginia SCOTT LUMBER CO., SCOTT HOMES DIVISION, 2313 National Rd., Elm Grove,

W. Va. Firm distributes in three states. Has 15 basic plans. Sells through dealers or to builders at prices from \$3,900 to \$7,600 f.o.b. Delivers in ten days. Catalog gives color drawings, floor plans, construction

Wisconsin

GREAT LAKES HOMES INC., Box D.

Sheboygan Falls, Wisc. Firm distributes in 300 mi. radius each plant. Has about 92 basic plans. Sells through dealers at prices from \$2,795 and up, f.o.b. Delivers in 14 days. Colored brochures show floor plans of many house and multi-family designs.

Circle No. 387 on reply card, p. 11

HARNISCHFEGER HOMES, INC., 500
N. Spring St., Port Washington, Wisc.
Firm distributes in 500 mi. radius. Has
64 basic plans. Sells through dealers or
to builders. Offers own financing plan. Catalog offers floor plans, photos. Circle No. 388 on reply card, p. 11

Circle No. 388 on reply card, p. 11
MARSHALL ERDMAN & ASSOCIATES,
INC., 5117 University Ave., Madison, Wisc.
Firm distributes in 500 mi. radius. Has
15 basic plans. Selis through dealers at
prices from \$4,000 to \$18,000 f.o.b. Delivers
in 14 to 30 days. Individual catalog sheets
in folder are available.

Canada

COLONIAL HOMES LTD., Box 282, West

Hill, Ontario, Can.
Firm distributes in Ontario, Quebec and Maritime provinces. Has 58 basic plans. Sells through builders and dealers at prices from \$1,800 to \$10,000 Lo.b. Delivers in ten days. Offers own linancing source. Thick catalog is available.

Thick catalog is available.

HALLIDAY CO., LTD., 551 Maple Ave.,
Burlington, Ontario, Can.

Firm distributes in 300 mi. radius, has
45 basic plans. Sells through franchised
builders at prices from \$2,500 to \$10,000.
Delivers in ten days. Offers NHA mortgage
financing. Catalog gives floor plans, elevation details. Blueprints are available to contractors.

SUNNIBILT PREFAB PRODUCTS LTD., 426 Ellesmere Rd., Scarborough,

SUNNIBILT PREFAB
LTD., 426 Ellesmere Rd., Scarborough,
Ontario, Can.
Firm distributes in 400 mi. radius, has
32 basic plans. Sells through dealers and
to builders at prices from \$4,000 to \$5,000
f.o.b. Delivers in 14 to 21 days. Offers
NHA financing, Brochure available.

Brand names are listed in alphabetical order, together with the names of their manufacturers. To obtain the complete name and address of a manufacturer, turn back to Section 3.

A B ARISTOCRAT Welbilt

Stove
A-C-E Arro Expansion Bolt
A F C Labrie Mfg Co Inc
A R B REMOV-A-GLIDE
A. R. B. Window Sales C
A. R. B. FEATHER-LIFT A. R. B. Window Sales Co A-LUMI-CAULK Sterling

Quality
A-LUMI-GLAZE Sterling

Quality
A-M WOOD PRESERVATIVE Marietta Paint
ABBEON Abbeon Supply Co
ABESTO CHEMICAL

TERMITE CONTROL

Abesto Míg Co
ABESTO FIBERATED Abesto
ABESTO LIQUID Abesto Míg
ABESTO LUMICLAD Abesto
ABESTO PLASTER BOND Abesto Mfg Co ABESTO QUICK SET

ABESTO QUICK SET
PLASTIC Abesto Mfg Co
ABESTO SEALER Abesto Mfg
ABESTO SEMI-PLASTIC
Abesto Mfg Co
ACCOLON Armstrong Cork Co
ACCORDOFOLD American
Accordion-Fold Doors Inc
ACCE Earls Bulle Mfg Com

ACE Eagle Rule Mfg Corp.
ACME Acme Appliance Mfg Co
ACME Acme National
ACOUSTIC-CELOTEX Celotex

ACOUSTICAL FIREGUARD
Armstrong Cork
ACOUSTICAL-PENCO

McGuffie Co
ACOUSTILITE Insulite Div
ACOUSTOLIGHT Barreled Sunlight

ACOUSTONE U S Gypsum ACRISATIN Seidlitz Paint ACRYLITE Wasco Products ACT-EASY Speakman Co ACT-RASY Speakman Co
ACTANE Hedges M M Mig
ACTINIC Pennsylvania Wire
ACTIVE QUALITY WARE
ACTIVE TOOL & Mig Co
ACUSTI-LUMINUS CEILING

Luminous Ceilings Inc AD-AIRE Carter-Waters Corp ADALOX Behr-Manning Co ADAMANT U S Gypsum ADAPTABEL Edwards Co Inc ADAPTAHORN Edwards Co ADJUST-A-BILT FIXTURES

ADJUST-A-PITCH LOUVERS

Leslie Welding Co Inc
ADJUSTA COLUMNS Adjusta
Post Mfg
ADJUSTA-SPRAY Speakman Co
ADJUSTA-POSTS Adjusta Post
ADJUSTA-HITE Chain Belt Co ADJUSTA-WATE Chain Belt ADJUSTITE Ives H B Co ADJUSTITE IVES H B CO
ADJUSTO Milwaukee Faucets
ADMIRAL Fiat Metal Mig Co
ADMIRAL General Bathroom
ADMIRAL Great Northern Mig
ADVANCE Beaver Advance
ADVENTURER Mansfield

AERO Crane Co
AERO-FLEX Auer Register Co
AEROFAN Emerson-Pryne Co
AEROLITH Souneborn Chemical & Refining
AEROLUX Consolidated
General Prod Inc

AEROLUX Johnson S T Co AEROTUBE Johns-Manville AEROWRAP Owens-Corning AFCO American Furnace Co AFTER-GLOW Goodrich B F AFTER GLOW Goodrich B F
AGATINE Goodrich B F
AGITAIR Air Devices Inc
AGRASEAL Tamms Industries
AIR ACE Dotmar Industries
AIR-CRETE Jaeger Machine
AIR FOIL Titus Mfg Corp
AIR-JET General Products Co
AIR-LITE BRAND Graybeal

AIR-LITE FIBERGLAS Plastic AIR-LITE SARAN Plastic

AIR-LITE SARAN PLANS OF THE SARAN Woven Prods
AIR-O-MATIC Williams
Oil-O-Matic Heating Co
AIR PLUS Jaeger Machine Co
AIR-SPEED Louisville Cement AIRACOUSTIC Johns-Manville AIRCON McQuay Inc AIRDITIONER Modine Mfg AIRDOME Wasco Products AIRDOME ROOF LOUVER

Rudeen N H Co Inc AIREFRIGERATION AIREFRIGERATION
COOLING Williamson Co
AIRLINE Ingersoil Prod
AIRLUME Eastern Products
AIROFLEX Auer Register Co
AIROLITE Airolite Co
AIROATH Goodrich B F Co
AIRFATH Mitchel Rubber
Products

AIRTROL Holly-General Co. AIRWEIL-DOOR Superior

ALABASTINE Chicago Bronze ALABAX Pass & Seymour Inc ALCOTE Precision

Weatherstrip ALDRIN Shell Chemical Co ALENCO Albritton Engineering ALFOL Reflectal Corp
ALGEM Modern Swimming
ALIN CREST Aluminum Indus
ALIN TILT Aluminum Indus ALINO Bowerston Shale Co ALIATITE Pratt & Lambert
ALL AMERICAN Eagle Rule
ALL TUB Gerber Plumbing
ALL WALL Gerber Plumbing ALLEGHENY STAINLESS

Allegheny Ludlum Steel Co ALLIGATOR GRIP Wagner

ALLISTER ALLO-MATIC
Allister Mfg Co Inc
ALLITH Allith-Prouty Inc ALLWEATHER LOUVERS Rudeen N H

ALLWOOD Hines Edw Lumber ALOHA BRAND Smith M R ALOXITE Carborundum Co ALSTO Alsto Co ALSYNITE Alsynite Div ALTICO Alloy Tile Corp ALUM-A-COAT Protectub ALUM-O-TOP Chase Brass ALUMALUN Amer Abrasive ALUMAPORTE Orchard Bros ALUMAROLL Orchard Bros

ALUMI-COUSTIC Cupples Products Corp ALUMIKOTE Vita-Var Corp ALUMILADDER Werner R D ALUMILASTIC Parr Paint ALUMIN-AIR Leigh Building ALUMINUM SNAP-ON Wisco ALUMISEAL Parr Paint ALUNDUM Behr-Manning Co ALUNDUM Norton Co ALWINTITE General Bronze
AMALITE American Asbestos
AMANIZE American Asbestos
AMARLITE American Art AMASPRO American Asbestos AMBALLOY Byers A M Co AMBASS-A-DOR Ambassa Dor AMER-GLAS Amer Air Filter AMER-PLY-WOOD Lehman Co AMER-PLY-WOOD Southwood AMERITA Seaman-Andwall
AMERITA Seaman-Andwall
AMERICAN American Flexible
AMERICAN Tenn Cool & Iron
AMERICAN BRAND Builders AMERICAN CRANES American

Hoist & Derrick Co AMERICAN SOLID-CORE Curtis Companies Inc. AMERICAN SUPER 8 American Floor AMERICAN THATCH

Ruberoid Co AMERICANA Congoleum-Nairm AMEROCK Amerock Corp AMERSPUN Fabrikona Inc AMERWOOD Lehman Co AMERWOOD Southwood Corp AMIDON FITTINGS Amide

Engineering
AMTICO American Riltrite
AMURSEAL Anti Hydro AMVAD Edwards Co Inc AMWELD Amweld Building ANACONDA Anaconda American Brass Co

American Brass Co ANCHOR Allied Chemical Corp ANCHOR Lufkin Rule Co ANCHOR Maze W H Co ANCHOR Merwin Mfg Co ANCHOR-LOK Allied Chemical ANCHORBOND Allied

Chemical Corp ANCHORFAST NAILS Independent Nail ANCHORITE Wall Plugs Inc ANCOR-EEZ Woodmack Prod ANDROC PENTA Androc

ANDROCK Washburn Co ANNUNCIETTE Edwards Co ANTI-HYDRO Anti Hydro

Waterproofing
ANTY-CHEK Rockcote Paint
ANYSTREAM Speakman Co APCO Aluminum & Glass APCO PUMP Aurora Pump APECO American Photocopy Equipment
APRILAIRE Research Products

APRILAIRE Research Products
APSCO Assoc Plumbing Supply
AQUA-FLO Morrison Co
AQUA-SEAI. Sullivan Co
AQUA-SHELD Camp Co Inc
AQUA-VAC Modern Swimming
AQUADAM Johns-Manville
AQUAFATCH Lorental Cable
AQUATHERM Circle Wire
AQUET Pennsalt Chemicals AQUET Pennsalt Chemicals
AQULUX Johnson S T Co
ARB 400 WINDOWS
A. R. B. Window

ARCADIA Arcadia Metal Prod ARCADIA Cole Mfg Co ARCADIA BRISE SOLIEL

Arcadia Metal Products
ARCHITECT Bird & Son Inc
ARDEE Werner R D Co Inc
ARIDCLEAR Anti Hydro

ARIDCLEAR Anti Hydro
Waterproofing Co
ARIDSIL Anti Hydro
ARIDTITE Anti Hydro
ARIBTONE Anti Hydro
ARISLIDE Michel & Pfeffer
ARISTO Fiat Metal Mfg Co
ARISTOCRAT Ohio Stamping
ARISTOCRAT HEATING
CABLE Ceilheat Inc ARISTOPAVE Thomas

Moulding Floor
AREANSAS SOFT PINE
FRONCE Lumber
ARLINGTON Gerber Plumbing
ARMORPLY CHALKBOARD U S Plywood Corp ARMORTOP Anti Hydro

Waterproofing
ARRESTONE Armstrong Cork
ARRO-CORE Arro Expansion ARROW-LOCK U S Gypsum Co ARROFLUTE Arro Expansion ARROW Copymation Inc ARROW Eagle Rule Mfg Corp ARROW DELUXE Eagle Rule ARROW-HART Arrow Har ARROW STAPLERS Arrow

ARROW SUPREME Eagle Rule ART Crane Co
ART LINE Calder Mfg Co
ART-ROC Truscon Labs Inc
ARTRIM Superior Industries ASBESTILE Johns-Manville ASBESTO MASONRY WATER REPELLENT Abesto ASBESTOS SEMI-PLASTIC

Abesto Mfg
ASHTONE Bloomington Limestone Corp
ASPHALCRETE Thomas Moulding Floor
ASTRAL Morphy-Richards Inc
ATHA Stanley Tools
ATLAS CEMENT Universal

Atlas Cement ATLAS COMPO FORMS Irvington Form & Tank Co ATLAS SPEED FORMS ATLAS SPEED FORMS
Irvington Form & Tank Co
ATLITE Atlas Electric Prods
ATMOS-THERM Rempe Co
ATTI-C-OOLER Damp Vent
ATTIC-AIR Acme Engineering
AUDICOTE U S Gypsum Co
AUDITONE U S Gypsum Co
AURORA PUMP Aurora Pump AURORA PUMP Aurora Pump AUTO-BLOC Round, David AUTO LOCK Superior Scaffold AUTO-NAILER Auto-Nailer Co AUTOFLO Speakman Co AUTOMATIC HOUSEKEEPER

Trion Inc AUTOSHIFT Hamilton Mfg AUTORYE Ekco Products Co AXIAL FLO-FANS Emerson-AXIAL FLOW Trade-Wind

AZPHLEX Azrock Floor Prod AZROCK Azrock Floor Product AZTEC Sullivan Co
AZTEX Kaiser Aluminum &
Chemical Corp
B H & ROTARY Johnson S T B & H ANGLE-RITE Butcher & Hart Mfg B-K POWDER Pennsalt B-K FOWDER Pennalt Chemicals Corp B SPINNER American Floor BACKER BOARD Air O-Cel BAK-R-FOAM Also Inc BALANCED-FLOW Goulds Pumps Inc BALL-RITE Cummins Portable BALSAM-WOOL Wood Conversion Co BAMA BRAND Alabama Oak

Flooring Co BAMBOOFOLD American

BAMBOOFOLD American
Accordion-Fold
BANTAM Grant Pulley
BANTAM Remington Arms
BAR BROOK BREEZE
BUILDER Bar-Brook Mfg Co
BAR D-K Cabot Samuel Inc
BARCO DRILL Barco Mfg Co
BARCO HAMMER Barco Mfg
BARCO RAMMER Barco Mfg
BARCO VIBRA-TAMP Barco
BARCOL Barber Colman Co
BARCOL Barber Colman Co BARRELED SUNLIGHT

Barreled Sunlight Paint Co BARRERA Empress Brick Co BARRETT-HOLT Allied Chemical Corp Barrett Div BASMOR-LITTLE Bastian-

BASMOR-LITTLE BASUANMorley Co Inc
BATH MAID Kitchen Maid
BATHE-RITE Milwaukee
Stamping Co Bathe-Rite Div
BAXCO Baxter J H & Co
BAY STATE Devoe & Raynolds
BAYFLEX Bay State Abrasive
BAYLAUN-BRAND Elliott Bay BEAM-HUGGER Round, David BEAR Behr-Manning Co BEAUTI-DOR Beauti-Dor Inc BEAUTI-WOOD Lehman Co BEAUTY BARROW Northwest

Metal Products Inc
BEAUTY-GLO Vita-Var Corp
BEAUTY QUEEN Toledo Desk
BEAUTY-TONE Vita-Var Corp
BEAUTYCRAFT CURV LINE

Beautycraft Kitchens Div BEAUTYKOTE Vita-Var Corp BEAUTYLINE Andersen Corp BEAUTYLINE Holcomb & Hoke BEAUTYWOOD Beautycraft

BEAUTYWOOD Beautycraft
Kitchens Div
BEAVER Mansfield Sanitary Inc
BEHR-LAC Behr Process Corp
BEL-AIR Leigh Building
BELAIRE Emerson-Pryse Co
BELTEVATOR Buschman E W BEN FRANKLIN United States

Gypsum Co
BENDICK SELF-LEVELING
LADD Richbilt Mfg Co
BENDIX-FRIEZ Abbcon Sup
BENEFACTOR Hess Co on Supply BENEFIRE Bennett-Ireland Inc BENEFORM Bennett-Ireland BENJAMIN Thomas Industries BENNETT BILT Bennett Mfg BERKELEY Berkeley Aluminum BERKITE Modern Swimming

Pool Co Inc

BERKO UH SERIES Berko Electric Mfg BERMICO Brown Co BERMIDRAIN Brown Co BERMIGATION Brown Co BERMISEPTIC Brown Co BERRY DOORS Berry Door BESTWALL Bestwall Gypsum BETSY ROSS Carey-McFall Co BEVIL-DEVIL Kimball Mfg Co BG 2 Bay State Abrasive BI-RAIL Acme Appliance Mfg BIDDLES ELASTIC Biddle Co

BIG 44 Calder Mfg Co
BIG MUSCLE Equipment Div
Young Spring & Wire Corp
BIG 7 JALOUSIE Superior BIG TIMBER-BRAND Elliott

Bay Mill Co
BILDRITE Insulite Div
BILT-WELL Caradco Inc BIN-PAK Ives H B Co BIN-VEYOR Bosworth Mfg Co BIRGE MEDALLION Birge Co BLACK DIAMOND Nicholson File Co

BLACK SHIELD Allied Chemical Corp BLACK TEMPERED

PRESDWOOD Masonite Corp BLACKHAWK Tilley John S Ladders Co Inc
BLAZECRETE Johns-Manville
BLEND-AIR Coleman Co Inc
BLENDTEX United States

Gypsum Co
BLO-FAN Emerson-Pryne Co
BLO-VAC Atlas Floor Surfacing
BLOC-SEAL Surfco Sales Co BLOK-JOINT Carter-Waters BLOK-LOK A A Wire Products BLOK-MESH Carter-Waters BLOK-MESH Carter-Waters
BLOK-SEAL Carter-Waters
BLP Mobile Paint Mfg Co
BLU-FLEX Millers Falls Co
BLU-MOL Millers Falls Co BLUE-BOND Clipper Mfg Co BLUE CIRCLE Dunkirk

Radiator Corp BLUE FLASH Bay State BLUE LINE Gates & Sons Inc BLUE RIBBON Thatcher Furnace Co BLUE RIDGE American-Saint

Gobain Corp BLUSH BUFFS Bowerston Shale BNCO PARTITIONS Biersach

& Neidermeyer Co

BO PEEP Carey-McFall Co

BOL-TITE Pyramid Mouldings

BOLTA FLOOR General Tire & Rubber Co Building Mat.
BOLTA-TOP General Tire &
Rubber Co Building Mat.
BONDACTOR Air Placement

Equipment Co BONDCRETE United States

Gypsum Co BONDEX Reardon Co BONDKOTE National Mfg BONDRITE Standard Paste BONDSTONE Emco Cement BONDWOOD Harris Mfg Co BONTEX Columbus Coated

Fabrics Corp
BORD-JAK Maco Corp
BOROLON Simmonds Abrasive
BOSCO Bowerston Shale Co BOWBAY Woodco Corp BOX-FIN Edwards Engineering BOX SHOOK U S Plywood Corp

California Div BREEZEMASTER Acme Engineering BREEZEMASTER Angel Co BRESSLER Kol-Master Corp BRIAR EDGE True Temper BRIDGEPORT Bridgeport Hardware Mfg Corp BRIDJOINT United States

Gypsum Co BRIGADIER General BRIGADIER General
Bathroom Products Corp
BRIGHT-GLAZE Mosaic Tile
BRIK-HITE Jeff Jones Co
BRIKS-ULITE Certain-Teed
BRIGGS BEAUTYWARE Briggs
BRILLIANT FIRE Ohio
Foundry & Mfg Co
BRISTOL DOOR General Doors
BRIXMENT LOUISVI

BRONCO Woodward Lumber BRONZALUM American

Abrasive Metals Co BRONZELGLOW BIRCH Scheirich H J Co BROOKPLY Brookings Plywood BROWN-LABEL Johnson's Wax BROWN-X Pass & Seymour Inc BRULE Brule Incinerator Corp BRUSHWOOD Congoleum-Nairn Inc

BUCKEYE Gar Wood Industries BUCKEYE Youngstown Sheet BUDGIT Manning, Maxwell BUILT-IN Standard Building BUILT-UP ROOF Ther-Mo Roof Inc.

BULKBINDER Gerrarda A J BULL DOG FLOOR CLIPS New Monarch Machine BULLCLAM Drott Mfg Corp BULLDOZER Atlas Floor BULLS EYE BLACK GLOSS Zinsser William & Co Inc

BULLS EVE SHELLAC Zinser William & Co Inc
BURKAY Smith A O Corp
BURKS Decatur Pump Co
BURT FREE FLOW GRAVITY VENTILATOR Burt Mig Co BURT MONITOR GRAVITY

VENTILATOR Burt Mfg Co BURT MONOVENT Burt Mfg BURT STANDARD GRAVITY VENTILATOR Burt Mfg Co BURT THERMAVENT BURT BUSHMAN Gensco Tools BUSTER CRABBE Cascade

Pools Corp BUTLERIB Butler Mfg Co BUILERIB BUIEF Mig Co BYERS 4-D Byers A M Co BYZANTILE Mosaic Tile Co CABLE HEAT Electromode D CADET Fiat Metal Mfg Co CADET General Bathroom CAFCO BLAZE-SHIELD U S Mineral Wool Co CAFCO HEAT-SHIELD U 8 Mineral Wool Co CAFCO SOUND-SHIELD U S

Mineral Wool Co CAL CAR BATH California Car CAL CAR BATH California Car Wash Systems Inc CALCINATOR Calcinator Corp CALDWELL LAVATORY Universal-Rundle Corp CALK-INS Rawplug Co Inc CALK-SCREW Maze W H Co CAM-LOCK FORMING

SYSTEM Gates & Sons Inc CAM-TITE Ives H B Co CAMASTIC C Cambridge Tile CAMDEN LAVATORY CAMDEN LAVALUES
Universal-Rundle
CAMEO Shower Door Co
CAMP-O-LITE Camp Co Inc
CAMPCO National Metal Prods
CAMPCRETE Camp Co Inc CANDYCOTE Crown Rubber CANNON BALL Starline Inc CANNON PLUGS Cannon Electric Co

CANOLECTRIC Trade-Wind CAPE CANAVERAL Gerber

Plumbing
CAPRI DOORS Capri Sales Inc
CARBI-TWIST U S Expansion
CARBOFLEX Carborundum Co CARBOLINEUM Carbolineur CARBOLINEUM Carbolineum
CARBOSOTA Allied Chemical
CARDENAS Evergreen States
CARLESON Disston Div H K
CARLTON Carrollton Mfg Co
CARNEY BRITE-WALL Carney
CARNEY GOLDEN FLEECE
CARNEY GOLDEN FLEECE

CARNEY GOLDEN FLEECE
CARROLINA Arnold Altex
Aluminum Co
CARRARA Pittsburgh Plate
CASCADE Fiat Metal Mfg Co
CASE Case J I Co
CASEIN GLUE Borden

Chemical Co
CAT Caterpillar Tractor Co
CATALINA Amerock Corp
CATALINA SCREEN DOOR Rudiger-Lang Co CATERPILLAR Caterpillar

Tractor Co
CAULK-FLO PUMP Force-Flo
CAUXEAL X-Pando Corp
CAVITY-LOK A A Wire Products Co
CECOFRAME Ceco Steel Prods CECONOMY Ceco Steel Prods CECOROLL Ceco Steel Prods CEDA-SPRAE Plextone Corp CEDAR GRAIN Certain-Teed CEDARCO Giles & Kendall

CEFCO Central Foundry Co CEIL-N-VENTOR Universal Blower Co
CEILTILE Arrow Fastener Co
CEL-O-GLASS Arvey Corp
CELL-U-BLANKET Wood Conversion Co CELL-U-FORM Wood

Conversion Co
CELLU-TONE Pratt & Lambert CELLUDECK Inland Steel Prods CELLUFLOR Inland Steel Produ CELLULITE Gilman Bros Co CELO-ROK Celotex Corp

CELO-SEAL Celotex Corp CELOTONE Celotex Corp CEMENT PLUG Coddington E D Mfg CEMENT STONE Cleveland Wash Tray Mfg CEMENTICO United States Gypsum Co
CEMENTONE Servicised Prods CEMESTO Celotex Corp CENCO Central Metal Strip Co CENTRAVAC Trane Co CENTRI-THRIFT Myers F E CENTURY Tilley John Ladders Co Inc CERAMAFLEX United States Ceramic Tile Co
CERAMI-TAPE Straitsville

Brick Co
CERAMIDUCT Straitsville Brick Co
CERAMIFILTER Straitsville CERAMIFILTER Straitsville
Brick Co
CERAMO Carey Philip Mfg
CERATILE Cambridge Tile
Mfg Co
CERCO Ceresit Corp
CERTAGLAS Certain-Teed
CERTAIN-TEED Certain-Teed
CERTAIN-TEED CERTAIN-TEED

CERTAIN-TEED Certain-Teed CERTATILE Pacific Tile CERTI-SPLIT Jackson Shake CHALLENGER Boice Crane CHALLENGER Kol-Master CHAMCO Chamberlin Co-CHAMPION Dunn W E CO-CHAMPION Heinemann Saw CHAMPION Tilley John S CHAMPION Tilley John S CHAMPION United States Groups Co-CHAMPION United States Gypsum Co
CHAMPION Vento Steel
CHAMPION DEARMENT

Champion Dearment Tool Co CHAN-L-CROS Junior-Pro Products Co CHANNEL-LAP Celotex Corp CHANNEL-LAP Celotex Corp CHANNELLOCK Champion Dearment Tool Co CHAR-B-Q Majestic Co Inc CHARGRILL Majestic Co Inc CHATTANOOGA Chattanooga

Royal Co CHECK-CORD & JUNIOR Lanebro Mfg Co CHECKERBOARD United

States Plywood Corp CHECKPEST Wood Treating CHECKPEST Wood Treating Chemicals Co CHEM-WELD Southwestern Plastic Pipe Co CHEROKEE Mosaic Tile Co CHEROKEE Mosaic Tile Co

CHICAGO Chicago Pottery Co CHICOPEE Chicopee Mills Inc CHINALINE Barreled Sunlight CHIP-A-SAW Cenatron Ind CHLORDANE Velsicol Chemical Corp CHORE BOY Incinerator

Products Co
CHROMALITE B & T Metals
CHROMALOX Wiegand Edwin L Co CHROME CLAD Lufkin Rule CHROME-X Pass & Seymour CHROMEBRITE United

Industries Inc
CHROMEDGE B & T Metals
CHROMTRIM Werner R D CID Goulds Pumps Inc
CINCH Biddle Co
CIRCLE MOLD Circle Wire
CIRCLE SHEATH Circle Wire
CIRCLE SUPER Circle Wire CIRCULATOR Majestic Co Inc. CIRESIN Circle Wire & Cable CIRESIN-75 Circle Wire CIRFLEX Circle Wire & Cable CIRO RECESS TUB Universal-

Rundle Corp CIRTEK Circle Wire & Cable CIRTUBE Circle Wire & Cable CIRTUF Circle Wire & Cable CITATION Birge Co Inc CLARITONE Baldwin-Ehret-Hill I C

CLARKETTE Clark Equipment CLARKLIFT Clark Equipment CLAYTON LAVATORY Universal-Rundle Corp

CLEAR-AIRE Sin-Jin Products CLEAR-COAT American Sta-Dri Co CLEAR-DRAIN Sin-Jin Products Co CLEAR PANEL Unit Structures Inc
CLEAR SITE Pickett Products CLEARCUSHION CLEARCUSHION
Congoleum-Nairn Inc
CLEARLITE Fourco Glass Co
CLEARTOX Abesto Mfg Co
CLERESPAN Republic Steel
CLERESPAN Republic Steel
Corp Truscon Div
CLIMATE CHANGER Trane
CLIMATE MASTER Hess Co
CLIMATE Bastion Norther CLIPPER Bastian-Morley CLIPPER Clark Equipment Co CLIPTEAST Ruberoid Co CLOR-TABS Pennsalt Chemicals Corp CLOROPOOL Modern Swimming Pool Co Inc
CLOS-O ROD Mirro Chrome CLOS-O ROD Mirro Chrome
CLUSTER SQUARE
Wood-Mosaic Corp Parkay Div
CMC Construction Machinery
CO-PLY North Pacific Plywood
COAL SUPER Williamson Co
COAT CRETE Penn Crete
COATATUB Protectub Inc
COBURN Colessed Such Lean COBURN Colorado Fuel & Iron COFAR Granco Steel Prods Co COIL-WAL Dubuque Products COLD GENERATOR Trane Co COLDSHELF Barkow Aug G COLLOPAKES Cabot Samuel COLONEL LOGAN Logan Co
COLONIAL Birge Co Inc
COLOR-BLEND Maze W H Co
COLOR-TEX Ruberoid Co COLORBESTOS Johns-Manville Corp
COLORCERAN Johns-Manville
COLORCRETE Lumino Co
COLORCRON Master Builders
COLORGLAZE Colorcrete Industries Inc COLORLITH COLORLITH
Johns-Manville Corp
COLORMIX Master Builders
COLORSOL Martin-Senour Co
COLORSPAN Mondial United
COLORUNDUM Horn A C
COLUMBIA Pational Metal
COLUMBIA-MATIC Columbia Mills Inc COMBOMATIC Easy Laundry

COLUMBIA Eagle Rule Mfg
COLUMBIA National Metal
COLUMBIA-MATHC Columbia
Mills Inc
COMBOMATIC Easy Laundry
Appliances Div Murray Corp
COMBWOOD United States
Plywood Corp
COMET Comet Mfg Div
COMET 2-TRACK TILT
WINDOW Alumatic Corp
COMFORTLINE Crane Co
COMFORTMASTER Thatcher
Furnace Co
COMFORTMASTER Thatcher
Furnace Co
COMFORTMOL Weather Seal
COMY Bemis Mfg Co
COMINCO U S Mineral Wool
COMMANDER Crane Co
COMMANDER Speakman CO
COMMANDER Spea

Universal-Rundle Corp
COMMODORE Fiat Metal Mfg
COMMODORE LIGHT
Wakefield Co
COMO Universal Rundle Corp
COMPOSTACK Hamilton Mfg
COMPOUND M Camp Co Inc
COMPRESS Met-Cro Specialties
CON SAW MATIC Clipper Mfg
CON-VAY-IT CONCRETE
SPECIAL American Conveyor
CON-VAY-IT MODEL RB
American Conveyor Co
CONCEPT 70
Congoleum-Nairm Inc

CONCRETE FORM
PRESDWOOD Masonite Corp
CONCRETE PLACERS Air
Placement Equipment Co
CONCRETE-TERMITE
DRILLS Relton Corp
CONCRETEX Elliott Paint &
Varnith Co.

CONDAIRE Williamsen Co CONDOR Raybestos-Manhattan Inc CONDUIT WEATHERMASTER SYSTEM CArrier Corp CONGOLEUM

CONGOLEUM
Congoleum-Nairn Inc
CONIC Hild Rapid Fastening
CONOLITE Continental Can
CONQ-R-DUST Johnson's Wax
CONSERVO Cabot Samuel Inc
CONSO Consolidated General
CONSO WINDMASTER
Consolidated General Prod
CONSOWELD EDGE TRIM

Consoweld Corp
CONSOWELD POSTFORMING
Consoweld Corp
CONSOWELD TWIN TRIM
Consoweld Corp
CONSOWELD 6 Consoweld
CONSOWELD 16 Consoweld
CONTINENTAL Continental
Aluminum Prod
CONTINENTAL Wabash

Screen Door Co
CONTINOUS STRIP Robbins
Flooring Co
CONTROLENS Holophane Co
CONTROLLER Silver Bells
CONVENIENT LIVING Home
Planners Int
CONVERT-TO-COOL. Typhoon

Air Conditioning Div
CONVEYALL Bosworth Mfg
COOKMASTER Stove Works
COOLAIR American Coolair
COP-O-TOP Chase Brass
COP-R-LOY Wheeling Steel
COP-R-NAP Omnose Wood
COP-R-TOX Mobile Paint
COPPER ARMORED
SISALKRAFT American
Signification

Sisalkraft Corp
COPPER-CHAMP Ludlow
Papers Div of Ludlow Corp
COPPERCRAFT Peterson
Robert H Co
COPPERWELD Copperweld
Steel Co Wire & Cable Div
COPPES NAPANEE

COPPES NAPANEE
KITCHENS Coppes Inc
COPR-FIBRE Forty-eight
Insulations Inc
CORAL Lehman Specialty Co
CORALUX Builders Fireplace

CORALUX Builders Fireplace
& Supply
CORALUX Johns-Manville
CORINTHIAN KOROSEAL
Goodrich B F Co Flooring
CORK BRICK Dodge Cork Co
CORKTITE Meadows, W R Inc
CORLON Armstrong Cork Co
CORNER-EX Inland Steel
CORNER GUARD Casings Inc
CORNICE VENTILATOR
Damp-Vent Co
COROMAT Owens-Corning

COROMAT Owens-Corning
Fibreglas Corp
CORONET Walters Mfg Co
CORONET SHOWER Norman
W F Sheet Metal Mfg Co
CORONIZED Owens-Corning
COROTOP Owens-Corning
CORRUFORM Granco Steel
CORRULUX Johns-Manville
CORRULUX Miranco Inc Div
CORTLAND BRAND
Wickwire Bros Inc
CORTLAND EMERY
AGGREGATE Maguire

AGGREGATE Maguire
Walter Co Inc
COSALCO Colonial Moulding
COSMOPOLITAN
Congoleum-Nairn Inc
COST CUTTER New London
Engineering Co

Engineering Co
COTSWOLD Hopes Windows
COUNTER V-CAP Stylon Corp
COUNTERFLO Dravo Corp
COVENTRY Mobile Paint Mfg
COVERALL

Macklanburg-Duncan Co
COVERALL Warp Brothers
COVERANGE Carey Philip
COVERANGE Miami Cabinet
Div Philip Carey Mfg
CRAFTWALL PANELING
Weyerhaeuser Co Roddis Div

CRE-O-TOX Cre-O-Tox
Chemical Co
CRESCENT Mustee E L & Sons
CRESCENT Walters Mfg Co
CREST Lithibar Co
CRESTLITHNE Crestline Co
CRESTONE Reardon Co
CRESTONE Armstrong Cork Co
CRESTONE Armstrong Cork Co
CRESTWOOD Mengel Co
CRETE-FIX Horn A C
CRETEHARD American
Asbestos Product Co
CREZON Crown Zellerbach
CRIBBER Maze W H Co

CRIS CROS STEEL
BRIDGING Rudeen N H Co
CROSSLY SURESEAL
JALOUSIE Crossly Window
CROWN Crown Rubber Co
CROWN Miller Co
CROWN BRAND Gensco Tools
CROWN CONTOUR Lustro
Tile Mfg Co
CRYSTAL Allied Chemical

Corp Barrett Div
CRYSTAL SILICONE Wurdack
Chemical Co
CRYSTAL TIPS McQuay Inc
CRYSTOLON Behr-Manning
CRYSTOLON Norton Co
CUDO Mondial United Corp
CUISINE CENTRE Elkay Mfg
CUPRINOL Chemical Products
CURON Curtiss Wright Corp
CURTIS Curtis Companies Inc
CURTIS Southern Mill & Mfg
CURTIS-ALLBRITE
Curtis-Allbrite Lighting Inc
CURYFORM Schenck, William
CUSHION GRIP Bridgeport
Hardware Mfg Corp

CUSHION GRIP Bridgeport Hardware Mfg Corp CUSHION SEAL Kessler Products Co. CUSHIONED POWER White-Rodgers Co CUSHIONTONE Armstrong

Cork Co
CUSTOM 80 Logan-Long Co
CUSTOM FOLD American
Accordion-Fold Doors Inc
CUSTOM MAGIC FOLD
Clopay Corp
CUSTOMLINE White-Rodgers

CUSTOMLINE White-Rodgers
CVCLO-CORE New England
Carbide Tool Co Inc
CYCLO-TWIST New England
Carbide Tool Co Inc
DAD & LAD Dad & Lad Co
DAISY Peterson Window Corp
DAISY Wagner Mfg Co
DAIL Modern Swimming Pool
DAMIT Quigley Co Inc
DAMPCOAT Wilbur & Williams
DANDIE MIXERS Koehring
DAP KWIK-SEAL Dap Inc
DARA FILM Dewey & Almy
DARACONE Dewey & Almy
DARACARD Dewey & Almy
DARACARD Dewey & Almy
DARACARD Copymation Inc
DASBOND Dasco Co Inc
DASCO Dasco Co Inc
DASCO Dasco Co Inc
DASCO TARGETHEAD

Damascus Steel Products Corp
DASCRETE Dasco Co Inc
DASTEX-X Dasco Co Inc
DASTITE Dasco Co Inc
DAVID ROUND ROUND, David
DAVID WHITE David White
DAVIS & WELLS Comet Mig
DEBONAIR Acme National
DECOR-A-LITE Miller Co
DECORATOR Tilley John S.
DECORPANEL North Pacific
DECOTILE Mosaic Tile Co
DECRO-WALL Decro-Wall
DEEFFREZE Amana
Refrigeration Inc
DEFENDER COrbin P & F Div

DEFT WOOD FINISH
Desmond Bros Paint Co
DEGLOSSER Savogran Co
DEHYDRATINE Horn A C
DEKADOOR United States
Plywood Corp
DEKALEATHER United

DEKALEATHER United States Plywood Corp DEKALUX United States Plywood Corp DEKAPLY United States
Plywood Corp
DEKATILE United States
Plywood Corp
DELCO CONDITIONAIR
Delco Appliance Div
DELCO-HEAT Delco Appliance
DELCO-MATIC Crawford Door
DELFAIR Fair D L Lumber
DELTA-SEAL Texas Vitrified
DELTA-SILM Delta Co
DELTASTRAL Delta Co
DELTOX Armstrong Cork Co
DELUXE Goodyear Tire
DELUXE Goodyear Tire
DELUXE Goodyear Tire
DELUXE Goodyear Mason
City Brick & Tile
DENSULITE Insulite Div

DESMOND SIMPLEX
DESMOND SIMPLEX
Desmond-Stephan Mfg Co
DESPARD Pass & Seymour Inc
DESPORD Pass & Seymour Inc
DETOPAK Mondial United
DETROIT JEWEL Welbilt
Stove Co.

DEVIL-LEVEL Pickett
Products Inc
DEVILBISS Devilbiss Co
DEVOE Devoe & Raynolds Co
DEXLOCK Dexter Lock Div
DEXTER Dexter Lock Div
DEXTER A-LITES Swivelier Co.
DIAL-O-MATIC Leigh
Building Products
DIAL-SET Kol-Master Corp

DIALMATIC Dexter Lock Div Dexter Industries DIAMIDE Diamond Expansion Bolt Co Inc DIAMOND Speakman Co

DIAMOND Speakman Co DIAMOND HARD Wells, J W DIAMOND-LITE DOOR Morgan Company DIAMOND-RIB Kaiser Aluminum & Chemical DIAMOND T Diamond T

Motor Truck
DIAVAC Chester Products Inc
DIE-CUT STRAP Gerrarda
A J & Co
DIFFUSAIRE Hart & Cooley
DITCH WITCH Witch
Marketing Co
DIVCO Division Lead Co
DIVIE Pick Howard B Lee

Marketing Co
DIVCO Division Lead Co
DIXIE Rich Howard B Inc
D'LUXLINE White-Rodgers Co
DO-X Schalk Chemical Co
DOLPHIN Fiat Metal Mfg Co
DOMCO Ostin, David
DOOR BOTTOMS Schlegel Mfg
DOOR CHIMES International
Register Co

Register Co
DOORMAN Barber Colman Co
DOORMASTER Crawford
Door Co
DOOROSCOPE Dooroscope Co

DOOR CODOOR OS COPE DOOR OS COPE
DOR-O-MATIC DOR-O-Matic
DOR-TITE Durkee-Atwood Co
DORFLO EZ-Way Sales Inc
DORGUARD Lockwood
Hardware Mfg Co
DOSCH CUSTOM CUTTER

Dosch Mfg Co
DOUBLE-DIPPED Maze W H
DOUBLE-HUNG Wisco Samuel
DOUBLE X Schalk Chemical
DOUBLE XX Simmonds
Abrasius Co

Abrasive Co
DOUBLELENGTH Evans Pipe
DOUGLAS CRESTLYN Douglas
Crestlyn International Inc
DOWN FLOW McQuay Inc
DRAFSTOP Roberts Co
DRAFT-O-STAT Hotstream

Heater Co
DRAIN-LINE Skyline
Industries Sales Inc
DRAMEX Reardon Co
DRAVO Dravo Corp
DRAWER-KIT Firpine
Products Co
DREAMLINE Angel Co
DRESDEN Mansfield San

DREAMLINE Angel Co DRESDEN Mansfield Sanitary DRESSATORY Reflectutherm DRI-CEIL Ceilheat Inc DRI-N-TITE Horn A C DRI-SPEEDWALL Natco Corp DRI-VAC Robbins Flooring Co DRIFILM Silicone Products DRIFTONE Baldwin-Ehret-Hill DRILFAST ANCHORS U S Expansion Bolt Co DRIVE-RITE ALUMINUM

NAILS Independent Nail DRY-AIRE Roper Geo D Corp DRY-LUX Coddington & E D DRYJOINT Standard Dry Wall DRYLOK United Gilsonite
DRYOMATIC Abbeon Supply DRYSEAL Revere Copper DU-AL-CLIP Timber

Engineering Co
DU-O-JECT Smith & Loveless DU RITE Scharf J H Mfg Co DUAL-LAP Edeo Products Inc **DUAL-PRIME** Construction

Machinery Co
DUAL-TONE Edco Products Inc.

DUAL-TONE Edco Products Inc DUALVECTOR Kritzer Radiant DUB-L-TITE Mobile Paint Mfg DUCTLESS AIR PURIFIER DUCTTE Miami Cabinet Div DUMPTOR Koehring Co DUNBEAM Dunn W E Co DUNBEAM Dunn W E Co DUNBRIK Dunn W E Co DUNTILE Dunn W E Co DUO-FAST Fastener Corp DUO-GUARD PUSHMATICS Buildog Electric Products Div DUO-JOBMASTER Ramset

Fastening
DUO-RAD Pebbco Industries
DUO-SAFETK Duo-Safety

Ladder Corp DUO-TROL HEATING Holly-General Co DUOCREX Horn A C DUOCREX Horn A C
DUPLEX Congoleum-Nairn Inc
DUPLEX Johns-Manville Corp
DUPLEX United States Gypsum
DUR-ABRITE B & T Metals Co
DUR-O-PANE Warp Brothers
DURA-GLIDE Durell Products
DURA-GLIDE Zegers Inc
DURA-LAP Edco Products Inc
DURA-LAP Edco Products Inc
DURA-LOK Allied Chemical
DURA-LOK Allied Chemical
DURA-DLUG Penn Crete Products DURA-PLUG Penn Crete Prods DURA-SEAL Zegers Inc DURA-WELD Penn Crete Prods DURABILT Auer Register Co DURACUT Bay State Abrasive DURAFAX Horn A C DURAFLOR Horn A C DURALIFE DOOR Jasco

Aluminum Products

DURAMESH Johns-Manville DURAMIC Hanley Co DURAPLY United States Plywood Corp DURATEX United States

Plywood Corp
DURATUB Mustee E L
DURAVAL United States Gypsum Co
DURELL Durell Products Inc DURETHENE Koppers Co Inc

DURETHENE KOPPET CO INC DUREX Chicago Spring Hinge DUREX Richbilt Co DURITE Behr-Manning Co DURMO THE FINISH ETERNAL Seidlitz Paint DURMOSEAL Seidlitz Paint DURO Fiat Metal Mig Co DUROLITE Insulite Div DUROLITE Insulite Div DURON United States Gypsum DUROPIPE Sonoco Prods Co DUSKLITE Pittsburgh Plate DUST-STOP Owens-Corning DUSTRONIC Radex Corp DUTCH BOY National Lead Co DUTCH BRAND

Johns-Manville Corp DUX SULATION Wilson, Grant, Inc.

Grant, Inc
DUXBAC Logan-Long Co
DX-100L POWER ASSIST
Hilti Rapid Fastening
DYMOBITS Milwaukee Elec
DYMODRILL Milwaukee Elec
DYMORIG Milwaukee Elec
DYNA-AIRE C & H Air
Conditioning Co Inc
DYNAMIC True Temper Corp
DYNASTY Congoleum-Nairn
DYNOMITE Miller Falle Co-

DYNO-MITE Millers Falls Co E Z DU Imperial Color
E-Z- FLOAT ATTACHMENT
Plastering Development

E-Z-ON Baltz Robert N Co. Inc E-Z PATCH Sullivan Co E-Z POST Inland Steel
E-Z POUR Inland Steel
E-Z ROLL Engineered Products
E-Z SHELVING HARDWARE Standard Steel Works Inc E-Z TEX Plastering

Development Center Inc E-Z TEX SPRAY UNIT Plastering Development
E-Z TROWEL Plastering
Development Center Inc
E-Z-WAY STAIRS EZ-Way Sales

E-ZEE LOC Woodco Corp E-ZEE LOC WOOGGO COPP
E-ZEELOC Rockwell of
Randolph Inc
EE-ZE-DO Berkeley Aluminum
EAGALINE Eagle Electric Mfg
EAGALOCK Eagle Electric Mfg
EAGLE PICHER Eagle-Picher

EARTHCO DOZER Farth

Equipment Corp EASIMOUNT Edwards Co Inc EASTMOUNT Edwards Co Inc EASTERN Rich Howard B EASY National-Detroit Inc EASY-CALL Music & Sound Inc EASY-WALL Simpson Timber EAVESEAL Tennison Bros Inc EBBTONE Johns-Manville ECCO Ekstrom Carlson & Co ECON-O-POST Tel-O-Post Co ECON-O-WALL Ware

Aluminum Windows Inc Aluminum Windows Inc ECONO-CAVITY-LOR A A Wire Products Co ECONO-LOK A A Wire ECONO-TAKEOUT Grand

Rapids Hardware Co
ECONOCOVE Johnson Plastics
ECONOMY Economy Forms
ECONOMY Harris Mfg Co
ECONOSOFT Red Jacket Mfg
ECONOVENT Rockwell of Randolph Inc

EDGE GUARD Casings Inc EFCO FORMS Economy Forms EFFECTO Pratt & Lambert Inc EL REY Celotex Corp ELASTICA Standard-Toch
ELASTIGUM Allied Chemical

Corp Barrett Div
ELASTITE Carey Philip Mfg
ELECTOFIN Berko Electric
ELECTRA-CAL Calcinator Corp ELECTRAMIC BROILER

Stanthony Corp
ELECTREND Electrend Prod ELECTRI-CARS Victor Adding

Radiator Co
ELECTRICIAN Tilley John S
ELECTRO-RAY INFRAFLO Electro-Ray Mfg Co ELECTROLON Simmonds

ELECTRONIC SERVICEMAN McKee Door Co ELECTROSTRIP Buildog Electric Products

ELECTRUNITE Republic Steel Corp Truscon Div ELECTRUNITE Republic Steel
ELEVETTE Inclinator Co ELGIN Elgin Softener Corp ELMERS GLUE-ALL Borden

Chemical Co Div Borden Co EMCO Emco Cement Products EMEREL Johnson's Wax EMERI-BOND Maguire Walter EMERI-BRICK Maguire Walter EMERI-CRETE FLOORING Maguire Walter Co Inc

EMERI-CRETE KURE Maguire EMERI-EPOX Maguire Walter EMERI-TOPCRETE Maguire EMERSON IMPERIAL

Emerson Electric Mfg Co EMERSON PRYNE Emerson Electric Mfg Co
EMPIRE Empire Level Mfg Co
EMPIRE Tilley John S
EMPIRE-STONE Protective

Products Co EMPRESS K Empress Brick Co ENAMELINE Ruud Mfg Co ENCHANTE Thomas Industries ENDURA Lustro Tile Mfg Co ENSIGN Fiat Metal Mfg Co

ENTERITE General Cable EQUATEMP Safety Glass Co ES-NAIL ES-Products Inc ESCALIFT Dover Corp.

ESKAY-LITE American
Sisalkraft Corp
ESSO Gilbert & Barker Mfg Co
ETERNIUM Allied Chemical Corp Barrett Div
ETLING Etling Window
EUREKALITE TROWELS

Nicholls Mfg Co EVANEER Evans Products Co EVANIER Evans Products Co EVANITE Evans Products Co EVANS Evans Rule Co EVEN-TEMP Northwest Metal EVER-FAST Allied Chemical EVER-NU Goodrich B F Co EVER-TIGHT Wagner Mig Co EVERDUR Anaconda American EVERETT TRENCHER Earth

Equipment Corp
EVERFAST Ambroid Co
EVERGLAZE Mosaic Tile Co
EVERGLEAM Goodyear Tire EVERJET Allied Chemical Corp EVERJET Allied Chemical Corp EVERLASTIC Acme Brick Co EVERLASTIC Allied Chemical EVERLOX Allied Chemical EVERLUM US Aluminum EVERSET Acme Brick Co EVERWARM HEATERS

Everwarm Inc
EVERWEAR LOUVERS
Rudeen N H Co Inc
EX-WOOD Lehman Co EXECUTIVE Executone Inc Gerrarda A J Co
EXPEDITE Pratt & Lambert EXTERCOTE National
Chemical & Mfg Co
F C P LIQUID BOND Tamms

Industries Co
L Farley & Loetscher Mfg
& W Flint & Walling Mfg Co FAB-FORM Pittsburgh Steel
FABRICO Woodco Corp
FABRICOTE Wasco Products
FABRIKONA Fabrikona Inc FABRIKONA Fabrikona Inc FABRIQUE Birge Co Inc FABROW Fabrow Mfg Inc FAIENTEX Mosaic Tile Co FAIRFIELD Ekco Products Co FALLS CITY True Temper FAMOUS Goshen Chum FAN-AIR Premier Furnace Co FANAIRE Auer Register Co FANON FONE Fanon

Electronic Industries Inc
FANTASY Insulite Div
FARLITE Farley & Loetscher
FARLODOR Farley & Loetscher FASCO Fasco Industries Inc FASHION White-Rodgers Co FASHION FAB Tedrick Bros FASHION-FAB WARDROBES Evergreen States Forest Prod FASHION PLATE Bryant Electrical Co

FASHIONETTE Sani-Top Inc FASHIONFLAIR Curtis FASHIONFOLD Hough Mfg FASHIONWOOD Curtis Companies Inc FASHION General Tire &

Rubber Co Building Material FASTINGE Leeds Edward & Co FASTINGE NO-MORTISE Leeds Edward & Co FASTRIP United Gilsonite FEATHER ROD Superior FEATHERWEIGHT Larson

Ladder Co
FENESTA Fenestra Inc
FENMARK Fenestra Inc
FENWALL Fenestra Inc
FERALUN American Abrasive
FERACUN A Merican A C FERRUBRON Carbolineum Wood Preserving Co

FESCO BOARD Johns-Manville FI ROK Celotex Corp FIBERCAST Youngstown Sheet FIBERCIAS Owens-Corning FIBERCIAS Owens-Corning FIBERCIAS Insulite Div

FIBRA-TUB Cleveland Wash Tray Mfg Co FIBRE FLEECE Janesville Cotton Mills
FIBREKOTE National Mfg
FIBRETONE Johns-Manville
FIESTA MEXICO Empress Brick Co Inc 50-50 PUSH OVER Allith-

Prouty Inc
FILM-OFF Sciditz Paint
FILMIX Selby Battersby & Co
FILON Filon Plastics Corp
FILSHIE Maze W H Co
FILTER-FLO General Electric Co Major Appliance Div FILTER-PAK Sunroc Corp FILUMA Frantz Mfg Co FIN-AWN-WIN Arnold Altex

Aluminum Co FINE/LINE Slant-Fin Radiator FINE/LINE Slant-Fin Radiato FINGER-STRAP Gerrarda A J FIRE-CHEX Carey Philip Mfg FIRE-LOCK Kaul Clay FIRECRETE Johns-Manville FIREHOOD Condon-King Co FIREITE Johns-Manville FIRESTONE VELON Plastic

Woven Prods
FIRESTOP Bestwall Gypsum FIRESTOP Bestwall Gypsum
FIRZITE US Plywood Corp
FISSURLITE Insulite Div
Minn & Ontario Paper Co
FITS-ALL Macklanburg-Duncan
FIVE STAR Bestwall Gypsum
FIVE STAR PLANS Better
Homes and Gardens
FIXIT National Mfg Corp
FIXT-AIRE Hart & Cooley Mfg
FLAGCRETE General Concrete
Products Inc

Products Inc
FLAIR Buffalo Wallcraft Co
FLAIRWOOD Curtis Companies Inc FLAME MASTER Robertshaw

Thermostat Div FLAME SET Robertshaw Thermostat Div FLAMEX Suburban Propane Gas Corp
FLEETLITE Fleet of America FLEETWOOD Crawford Do FLEETWOOD Toledo Desk

FLETCHER Fletcher-Terry FLEX-A-LITE Arnold Altex Aluminum Co FLEX A SWITCH Metzgar FLEX-O-GLASS Warp Bros FLEX-O-PANE Warp Bros FLEX-SULATION Wilson

Grant Inc
FLEXALUM Bridgeport Brass FLEXALUM Bridgeport Brass
FLEXAZONE Drayson-Hanson
FLEXBOARD Johns-Manville
FLEXCELL Celotex Corp
FLEXI-BILT FRAME KIT Firpine Products Co FLEXI DUCT TAPE Wilson

Grant Inc FLEXICO O'Brien Corp FLEXICORE Flexicore Co In FLEXIGUM Allied Chemical FLEXIVENT Andersen Corp FLEXO-SEAL Reese Metal Co Inc FLEXROLLER Hypro Engineering Inc
PLEXROTOR Hypro

Engineering Inc
FLEXSCREEN Bennett-Ireland FLEXSTONE Johns-Manville FLEXWOOD US Plywood Corp FLIGHT-VEYOR American

PLIGHT-VETON
Convevor Co
Convevor Co
FLINT EDGE True Temper
FLIP-SEAL Rodale Mfg Co Inc
FLIP-SEAL Ramset Fastening FLITE-CHEK Ramset FLO-MASTER Acme Engineering & Mfg FLOOR-KING American Floor FLOORLEVEL General

Automatic Products Corp FLOORLINE Crane Co FLOORMASTER Atlas Floor FLOORSTONE Tamms Industries Co

FLOR-EVER Congoleum-Nairn FLOR-NU Coddington E D Mig FLOR-PATCH American

(Continued on page 86)

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Thunderbird Series



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- Prefinished exterior doors and glazed aluminum slider windows factory installed in the wall
- · Cables with cedar shakes factory applied, louvers installed
- Roof trusses, roof sheathing, felt, and 210# asphalt shingle roofing
- Primed exterior architectural trim
- Interior partitions, complete interior trim, passage door assemblies, and closet closures
- · Ceiling insulation, rough and finish hardware, and factory applied weatherstripping
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Executive Offices: Piqua, Ohio

Plants in Piqua, Ohio; Hanover, Pa.; and Clinton, Iowa



BRAND NAMES DIRECTORY

(Continued from page 84)

FLOW-COLD Acme Industries FLOW-ON Barreled Sunlight FLOW PAC Acme Industries FLOW RACK Rapids-Standard FLOW-TEMP Acme Industries FLUID-TITE Keasbey & Mattison Co
FLUSHCALL Edwards Co Inc
FOAMASTER Atlas Floor FOAMASTER Atlas Floor Surfacing FOAMCOTE Crown Rubber Co FOAMEDGE Sterling Alderfer FOAMFLEX Mortell J W Co FOAMGLAS Pittsburgh Corning FOAMSIL Pittsburgh Corning FOAMSIL Pittsburgh Corning FOAMSIL Pittsburgh Corning Scaffolding Co FOLD-A-WEIGH Standard Building Products Co
FOLD-ASIDE Acme Appliance
FOLD-BACK Macklanburg-Duncan Co
FOLDET Gates Mfg Co Inc
FOLDOR Holcomb & Hoke
FOOTHOLD Behr-Manning
FORCE-FLO Trane Co
FORDYCE ROYAL OAK FORDYCE ROYAL OAK
Fordyce Lumber Co
FORECAST Congoleum-Nairn
FORESTONE Simpson Timber
FORGE CRAFT Penn-Akron
FORGEWELD Colson Corp
FORM FLOW Standard Register Co FORMBINDER Gerrarda A J FORMCO Form Co FORMFREE Mosaic Tile Co FORMTEX Formtex Industries FORMTEX US Plywood Corp FORM LEX OF PLYWOOD COPP FORMTY Form Co FORUM Miraplas Tile Co FORWAY US Expansion Bolt FOUR A Alabama Metal Lath FOUR POINT Wilbur & FOUR-IN-ONE SKID SHOVEL Drott Mfg Corp 4-SQUARE Weyerhaeuser Co Lumber & Plywood Div 4-WAY WINDOWS Farley & Loetscher Mfg Co FPF Reese Metal Weatherstrip FRAIM Safe Padlock & Hardware Co FRANCISCAN-HERMOSA Gladding McBean & Co FRANTZ Frantz Mfg Co FRATE-GATE Gar Wood Industries, Inc. FRE-FLO Sequoia Mfg Co FRENCH LOCK Certain-Teed Products Corp
FRESH'ND-AIRE Corp Corp
FRICTION-MATIC Boice Crane Co FRIGIDAIRE Frigidaire Div FRONT END Allied Chemical FULL-VU Leigh Building Prods FULTEX Fulton Cotton Mills FULTON TARPS Fulton Cotton Mills
FURLATH Inland Steel
Products Co
FUSE-O-LINK Clark Door Co
FUSIONBRAZED Higbic Mfg
FUSIONWELD Higbic Mfg Co
FUTURA Beauti-Dor Inc
FUTURA Miraplas Tile Co
FUTURA Penn-Akron Corp
FYNAL-KOLOR Weatherbest
FYNAL-KOTE Creo-Dipt Co
FYRGARD Richmond Fireproof
Door Co Cotton Mills G-B DUCT Gustin-Bacon Mfg G & P Grinding & Polishing
Mach Corp
G S D Glass Shower Door Co
GACOR WINKERS Eagle

GARAGE DOR-MAN Dor-O-Matic Div GARD-N-BEAUTY Gilbert & Bennett Mfg Co
GARDENCRETE Colorcrete Industries Inc GARLAND Welbilt Stove Co GARNET Behr-Manning Co GAS-O-MATIC Williams Oil-O-Matic
GAS SUPER Williamson Co
GASAVER Williamson Co
GASALITES Arkla Air Conditioning Corp GE General Electric Co GE General Electric Co Apparatus Sales GEE-VEE-LINE Gee Vee Line GEM-SET Bay State Abrasive GEMCO Moore Goodloe E Inc GENASCO Fry Lloyd A Roofing GENCASEAL General Cable GENCATROL General Cable GENCATROL General Cable
GENERAL General Bathroom
Products Corp
GENERAL General Hardware
GENERAL Great Northern Mfg
GENERAL GIBRALTAR
General Plywood Corp
GENIE Alliance Mfg Co Inc
GENRALAC Sapolin Paints Inc
GENUWOOD Parkwood
Lawinster Inc Laminates Inc
GEOCOUSTIC Pittsburgh GEOCOUSTIC Pittsburgn
Corning Corp
GER.PAK Gering Plastics Div
GETTY Getty H S & Co Inc
GIBRALTAR Fiat Metal Mfg
GILBARCO Gilbert & Barker
GILL Progress Mfg Co Inc
GLAMADOR Northern
Industries Inc GLAMADOR Northern Industries Inc GLAMOUR Farley & Loetscher GLAS-GLAZ American Vitrified Products Co GLASBARS Owens-Illinois GLASFLEX Horn A C GLASIRON Wolverine Porcelain Enameling GLASS-O-NET Warp Bros GLASSHEAT Continental Radiant Glass Heating
GLASSURFACED Kirlin Co
GLASWELD US Plywood Corp GLAYELD US Plywood Cor GLATEX US Gypsum Co GLAZECOAT Johns-Manville GLAZOL United Gilsonite GLAZON Triangle Conduit & Cable Co Inc
GLENDURA SOIL-PROOF
WALLCOVERINGS Imperial Color Chemical GLID-TONE Glidden Co GLIDE Frantz Mfg Co
GLIDE-ALL Woodall Industries
GLIDE-AWAY Farley &
Loetscher Mfg Co
GLIDE-O-MIR General Bathroom Products Corp GLIDE-O-MIR Great Northern Mfg Corp GLIDEMASTER Cox Arthur & Sons Inc
GLIDEOVER Wagner Mfg Co
GLIDER Momar Industries
GLIDEX Caldwell Mfg Co GLIDORAMA Whizzer Ind GLISTO Sapolin Paints Inc GLO-FLEX Globe Paints Works GLOBE-ALUME Globe Roofing Products Co Inc GLOBEROID Globe Paint Works Inc GLONAMEL Globe Paint Works Inc. GLOS-TONE Martin-Senour Co GLYDE-WIN Arnold Altex Aluminum Co GOLD BAK Alsco Inc Electric Mfg Co
GALA Congoleum-Nairn Inc
GALVA-TEX Rockcote Paint
GALVA TWIST Jeffery Form GOLD BOND National Gypsum GOLD CROWN Pioneer Gen E GALVANUM Vita-Var Corp GALVINOLEUM Rust-Oleum GOLD MEDAL Patent Scaffolding Co

BRAND NAMES DIRECTORY

GOLD SEAL Dalton Mfg Co GOLD SEAL Reese Metal Weatherstrip Co GOLD STRAND Colorado Fuel & Iron Corp GOLDEN LINK Kaiser Aluminum & Chemical GOLDEN MAPLE Curtis GOLDEN MAPLE CUTUS
Companies Inc
GORDON DOOR Gordon Mfg
GOSSETT Kees F D Mfg Co
GPX Georgia Pacific Corp
GRAIN-TEX Mastic Corp
GRAINGLO Puget Sound Plywood Inc
GRAND PRIZE US Gypsum Co
GRANDVIEW Miami Cabinet
GRANITEX Mosaic Tile Co
GRANITEX Truscon Labs Inc
GRANOLITH Barreled Sunlight Paint Co GRAVEL-SPREADER Air Placement Equipment GRAYLITE Insulite Div GRAYS HARBOR Mackie Mill GRAYSTONE Graystone Div GREASEPTOR ZUTH Industries GRECIAN Insulite Div GREEN-LABEL Johnsons Wax GREENCON Clipper Mfg Co GRENADIER Wakefield Co GRENADIER Wakefield Co GRI-P-LATE Sanford Gri-P-Late Co GRIDTONE Armstrong Cork GRIDTUE Air Vue Products GRIFFIN Griffin Mfg Co GRILLADIER Bennett-Ireland GRIND-O-FLEX Merit Prods GRIP-O-MATIC Owatonna Tool Co GRIP-SNIP Sargent & Co GRIP TRED Plexione Corp of America
GRIPSTAYS Maze W H Co
GRIPTAC B & T Metals Co
GRITCLOTH Bay State Abrasive Products GUARD Columbus Coated Fabrics Corp
GUARDIAN Corbin P & F Div
GUARDIAN General Cable Corp
GUARDIAN Pittsburgh Plate GUIDE-O-MATIC Barrett Cravens Co GULF STREAM Aldrich Co **GULFSPRAY** Binswandeer Glass **GULFSTAR** Binswander Glass Co GUM-A-TUB Protectub Inc **GUM-BESTOS** Wilson Grant Inc GYP C DOODLE Gypsum Ceiling Jack Co GYP C JACK Gypsum Ceiling Jack Co GYP C PROP Gypsum Ceiling GYRO-SPENSER Gyro Brass Mfg Corp H & C Hart & Cooley Mfg Co H-D Bridgeport Brass Co H & H Arrow Hart & Hegeman Elec Co H-P H-P Products Inc H&PBRAND Hassell & Parkes HADDON HALL Wood-Mosaic HAKO PRODUCTS Hachmeister-Inc HALSEY TAYLOR Taylor Halsey W Co HAM-R-TOOLS Fastway Fasteners, Inc. HAMILTON Remington Alum Window Corp HAMMER-SETS Rawplug Co HAN-D-POST Sawhill Tubular HANDI-COIL B & T Metals Co HANDIE TALKIE Motorola Communications & Electronics



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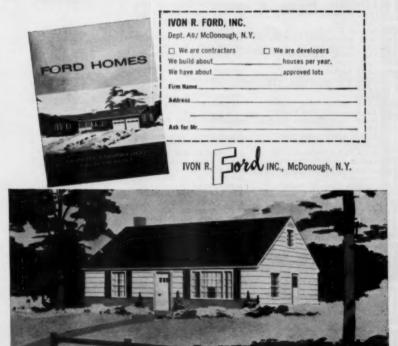
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HANDY PLASTER Coddington

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BRAND NAMES DIRECTORY

(Continued from page 87)

HANMOLE Molco Drilling Machines Inc Machines Inc HAR-VEY American Screen Products Co HARCO Veach-May-Wilson Inc HARCO BRAND Hardwood Corp of America
HARCOL Sonneborn Chemical & Refining HARD-GLOSS Johnson's Wax HARD-TIP Heinemann Saw HARDLAP Insulite Div HARGRAVE Cincinnati Tool Co HARMITONE Moisaic Tile Co HARRIS BRAND Harris Hardwood Co Inc HARTCO Tibbals Flooring Co HASTINGS Hastings Aluminum Products Inc. HAWK SPREAD Ohio Lime Co HAWS-KRAMER Haws HAWS-KRAMER Haws
Drinking Faucet Co
HAYES Gerber Plumbing
Fixtures Corp
HEAT-PAK Aldrich Co
HEATFORM Superior Fireplace
HEATILATOR Vega Industrice
HEATLUX Johnson S T Co
HEATRITE Auer Register Co
HEETAIRES Markel Electric
Prods Inc Prods Inc HEF-T-POST Sawhill Tubular Products Inc Fabricating Div Products the Fabricating By HELIX Caldwell Mfg Co HELYX Hillwood Mfg Co HERCULES Meilink Steel Safe HERCULES Newark Ladder & Bracket Co Inc HERCULIES Sargent & Co HERCULITE Pittsburgh Plate HERCULOY Revere Copper & HERCULUME Shower Door Co HERMAN NELSON American Air Filter
HERMIDIFIERS Abbeon Supply
HERMITAGE Leathers A H Mfg Co HERRINGBONE Merwin Mfg HERRINGBONE DOUBLE MESH Republic Steel Corp Truscon Div Truscon Div Sexpansion Bolt HI-BOY Airtemp Div Chrysler HI-CAP Rempe Co HI-ELECTRIC Maginniss Power Tool Co HI-LINE Lufkin Rule Co HI-LINE Weatherproof Products HI-LINE Weatherproof Products HI-LITE Farley & Loetscher Mig Co
HI-LITE United States Gypsum
HI LO Peninsula Tool Co Inc
HI & LO Utica Radiator Corp
HI-LO Wolfe Products Inc
HI-LOAD Independent Nail &
Decline Co. Packing Co
HI-RED Holub Industries Inc HI-SPEED Louisville Cement Co HI-STRENGTH Certain-Teed HICO Hico Corp of America HIDALIFT Turner & Seymour Mfg Co HIDE-A-SHELF Amerock Corp HIDE-A-WAY Acme National Refrigeration Co Inc HIDEWAY Newark Ladder & Bracket Co Inc HILO Frantz Mfg Co HILTI Hilti Rapid Fastening Systems Inc HOE-BOY Construction Machinery Co
HOIST ALL Coffing Hoist Div Buff-Norton HOIST MASTER Smith Hoist Mfg Co HOL ANCHOR Hollaender HOLD-IT Arro Expansion Bolt HOLESHOOTERS Milwaukee

HOLGUN Black & Decker Mfg HOLIDAY Burnham Corp Heating & Cooling
HOLIDAY Winter Seal Corp
HOLOFLUX Holophane Co Inc
HOMECRETE Corson
G & W H Inc HOMEGARD Russell & Erwin HOMEGARD Pal-O-Pak Insulation Co Inc
HOMELIFT Dover Corp
HOMELITE Homelite Div Textron Inc HOMES FOR LIVING INC Architectural Plan Service Inc HOMESHIELD Amer Screen HOMOFLEX Raybestos-Manhattan Inc HOODAIRE Hearthaire Conditioning Co HOPTO Badger Div Warner & Swasey Co. HORIZON TILE Cambridge Tile Mig Co
HORN OF PLENTY Ajax
Hardware Corp
HORNFLEX Horn A C Cos
HOT WITCH Witch Marketing
HOUR SEAL O'Brien Corp
HOUSEMART Weyerhaeuser
Co Roddin Div Co Roddis Div
HOWELL Kol-Master Corp
HOWELL-DOR Howell Mfg
HOWELL-TITE Howell Mfg
HPC SOUND INSULATING DOORS Hardwood Products HUBBELLOCK Hubbell Harvey HUBBELLOCK HUDDEI Harv HUDEE Selck Walter E & Co HUDSON Tilley John S Ladders Co Inc HUETEX American-Saint Gobain Corp HUEWHITE American-Saint Gobain Corp HUFCOR Hough Mfg Corp HUGADOR B & T Metals HUMPHREY GAS LIGHTS General Gas Light Co HUNT PROCESS Carter-Waters Corp
HUSH-TONE Celotex Corp
HUSKY Zoss Ladder & Mfg
HV-CENTRIFUGAL Decatur Pump Co HYDRAPATCH Seddon Co HYDRASPLIT Park Tool C Tool Co HYDRAULIC ACTION HYDRO-FLO Bell & Gossett Co
HYDRO-LINE Skyline
Industries Sales Inc
HYDRO-PLUG Camp Co Inc
HYDRO-TITE Slant-Fin Radiator Corp HYDROGUARD Powers Regulator Co
HYDROPEL American
Bitumula & Asphalt Co
HYDROTHERM Hydrotherm HYDROXOLATOR Outdoor Oven Fireplace Co HYPRO Hypro Engineering
HYSTAWAY Hyster Co
I-BEAM Farley & Loetscher Mfg I-XL LAVANITIES I-XL Furniture Co IDA-DOOR Ida Products Co
IDA-TILT Allied Chemical
IDA-TILT Ida Products
IDAMATIC Ida Products IDEAL Extension Drawer Support Co IGAS Sika Chemical Corp ILCO Independent Lock Co IMPERIAL Bastian-Morley IMPERIAL Miller Co IMPERIAL U S Aluminum
IMPERIAL BLOCK
MACHINES Lithibar Co IMPERIALITES Emerson-Imperial Lighting Co IMPERVO Hanley Co IN-A-WALL CLOCK Wisconsin

Clock Co Inc

INADOR DOOR CLOSER Norton Door Closer Co INCLIN-ATOR Inclinator Co of America INCLINE TRACK King Mfg INCLINETTE Inclinator Co of America INCOR Lone Star Cement INDEPENDENCE Independence Oak Flooring Co
INDUSTRIAL Miller Co
INDUSTRIAL HIGH-TENSILE
Granite City Steel Co
INFRA-RED Emerson-Pryne Co
INFRA-RED Insto-Gas Corp INLAND HI-BOND Inland Steel Co INLAND TI-CO Inland Steel INLAND TI-NAMEL Inland Steel Co
INS-LITE Insulite Div
INSELUM Mastic Corp
INSL-COTTON Taylor Bedding INSTANT-FIT Universal Fabricator INSTANT HEAT Emerson-INSTO-GAS Insto-Gas Corp INSUL-FIL Miracle Adhesives INSULAYMENT BOARD Camp Co Inc
INSULITE Insulite Div
INSULKOTE Johns-Manville
INSULPRENE Hubbell Harvey
INTEGRALOCK Sargent & Co
INTER-CALL Music & Sound
INTER-LINK Cable Electric Products Inc INTERCOTE National Chemical & Mfg Co INTERMATIC International Register Co INTERNATIONAL Motor Truck Div. Internat'l Harv INVINCIBLE Fry Lloyd A Roofing Co INVINCIBLE DOOR Jasco Aluminum Products INVISIBLE DOR-MAN Dor-O-Matic Div IRON-COTE Sullivan Co IRONBOUND Robbins Flooring Co IRONRITE Ironrite Inc INONKITE INONKITE INC IVANHOE Miller Co IVORY US Gypsum Co IVORY-X Pass & Seymour Inc J-FOAM Johns-Manville Corp J N BRAND Cook, F C & Co J-M Johns-Manville Corp IACK # FOST Allied Chemical JACK FROST Allied Chemical JACK RABBIT Hubbell Harvey JACKLIFT Lewis-Shepard Products Inc JACKSON Gerber Plumbing Fixtures Corp JACKSON Vulcan Electric Co JACKTRACTOR Lewis Shepard Products Inc. JACQ Luxor Carpet Co JACUZZI Jacuzzi Bros Inc JAL ZINC Jones & Laughlin JALOUSIE Vulcan Metal Prods JAMB-UP Macklanburg-Duncan JAY BEE Kaiser Aluminum & JAY-LITES Jay Lighting Mfg
JAYCANDESCENT Jay
Lighting Mfg Co Inc
JAYS ANZAC Jay Lighting Mfg Co Inc JAYS CORONET Jay Lighting Mfg Co Inc JAYS PARASOL Jay Lighting Mfg Co Inc JAYS VISORLITE Jay Lighting Mfg Co Inc JELCO Jenkins Lumber & Mfg JET-AGE McPherson Inc JET-BLASTERS Air Placement Equipment
JET E-Z Jet Tool Inc
JET-LINE Wilson Grant Inc JET LITE Wood Shovel & Tool JET-O-MATIC Gould Pumps JET ROCKET True Temper JET-TOWER Youngstown

JETBLAK Ruberoid Co JETO Lake Shore Inc JEWEL Jewel Paint & Varnish JIFF-E-PLUGS Ackerman Johnson Co. JIFFY Angel Co
JIFFY JACKS Superior Scaffold
JIFFY JOINT Cannelton Sewer Pipe Co
JIFFY-JOINT Texas Vitrified Pipe Co JIFFY 2 WAY Zoss Ladder Mfg Co JIM DANDY True Temper JMJ CUTTER J M J Industries JOHN DAY Hines Edward Lumber Co JUBILEE Burnham Corp Heating & Cooling Div JUNIOR Weil-McLain Co JUNIOR BEAMS Iones & Laughlin Steel Corp JUNIOR CHANNELS Jones & Laughlin Steel Laughlin Steel

K & M Keasbey & Mattison Co

K-LITE Kessler Products Co K-V Knape & Vogt Mfg Co K-VENIENCE Knape & Voj Vogh K/W Kaiser Aluminum & Chemical Corp KAAR IMP Kaar Engineering KAIBAB STONE Western States Stone Co KAISER Permanente Cement KAISER FIR-TEX Kaiser Gypsum Co Inc KAISERCOUSTIC Kaiser Gypsum Co Inc KALISTRON US Plywood Corp KALITEX US Plywood Corp KALOK Kaul Clav Co KANT-LEAK Sullivan Co KANT-SAG United Steel Prods KANT-SLAM Kant-Slam Door Check Co
KANT-SLIP Standard Register
KRANT-SLIP Standard Register
Co KARRY KRANE Hyster Co KAY CEE Ductless Hood Co KAYTHERM Keasbey & Mattison Co. KELCO Wells Aluminum Corp KELLEY BANTAM Kelley Machine Div KELLEY CHIEF Kelley Machine Div KELLEY HYDRA-TOWEL Kelley Machine Div KELLY PERFECT True Temper Corp KEMI-KAL Sullivan Co KENCO Kenco Mfg Co KENCORK Kentile Inc KENCOVE Kentile Inc KENFLEX Kentile Inc KENFLOR Kentile Inc KENGRADE Kentile Inc KENNA-PAK Kennatrack Corp KENNA-RAMA Kennatrack KENNAFRAME Kennatrack KENNAGUIDE Kennatrack KENNALATCH Kennatrack KENNALOCK Kennatrack Corp KENNOLOY Kennatrack Corp KENRUBBER Kentile Inc. KENT Speakman Co KENTILE Kentile Inc KENTUCKY COLONEL General Plywood Corp KEWANEE Lake Shore Lake Shore Engineering Div KEX Rutland Fire Clay KEY-HAK Producers & Distributors Inc KEYBEAD Keystone Steel & Wire Co KEYCORNER Keystone Steel & Wire Co KEYDOR Dina-Pak Corp KEYLINE Calder Mfg Co KEYMESH Keystone Steel & KEYNOTE Edwards Co Inc KEYSTONE Diamond Expansion Bolt Co Inc KEYSTONE Revere Copper & Brass Inc KEYSTONE Seneca Wire & Mfg (Continued on page 102)

Electric Tool HOLFORD Hopes Windows Inc

CHNICAL DATA SECTIO

Site planning

Concrete, masonry, tile, brick

Framing

Roofing, siding, insulation, sheathing

Doors, windows

Plumbing, water supply

Heating, cooling, ventilation

Electrical, wiring

Floor, wall, ceiling material

Millwork, cabinets

Hardware, building specialties

Appliances

Paints, finishes, waterproofing

Tools, equipment

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GENERAL PREPARATIONS:

The site chosen for your houses should first fit the local home market. Determining this market demand, both as to house type and price range, population growth and housing needs, is a basic precaution, particularly if you are buying in an area where land prices are high and your investment will be costly. A good deal of this market information is available from local agencies such as your Chamber of Commerce and Planning Commission, from the FHA and U.S. Bureau of Census. Much of this type of information for specific cities has been summarized by American Builder in its series of research studies, "Markets on the Move."

Once you have decided what and for whom you are building, the choice of acreage is already narrowed down. Cost of the land, amount of grading involved, public utilities available, adjacent land use, zoning ordinances...

careful check of these factors against your original market plan and cost estimate will narrow the choice once again.

It is important to remember, too, that the FHA and other loaning agencies are extremely careful of physical environment when rating a location. To establish the stability of value and desirability of a site FHA considers: protection from adverse influences, such as industry, airports, etc.; freedom from special hazards, such as high speed traffic, fire hazards; adequacy of civic, social and commercial centers; adequacy of transportation; and general appeal.

The check list below can be used to quickly evaluate a potential subdivision site and compare it with the others under consideration. You can tear this one out of the magazine or have it copied into an office form for convenient use. You may also want to add some new check points to it to cover your local problems.

Site	Proveiling wind
Size Acres	Prevailing wind
SIZE ATTACHEMENTAL ATTACHEMENT ACTES ACTOR	192 22 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Location Factors	Airports:
	Distance
Direction from city	Relation to approaches
Class of surrounding development:	Airparks:
highlowlow	Distance
Distance from central business district	Relation to approaches
viastreet	Site Factors
Distance from major employment centers	
Public Transportation: type	Raw Land Priceper acre. Total
goodpoorpoor	Public Water Supply Connections: yesno
Fare to employment and center	Distance and size of nearest main
Travel Time	Will require—independent system
Automobile access:	Individual wells
goodpoorpoor	Public Sewer-connections: yesno
Travel time to employment and center	Distance, size and invert of nearest main
Type of highway approaches:	***************************************
goodpoorpoor	Will require—independent system
Processes of Community Englishes	Septic tanks
Presence of Community Facilities	Topography: hillylevelrollingrolling.
Existing shopping center or stores:	Elevation of site:
Size and type	Highest pointLowest pointAverage elevation
Distance	Estimated amount of land over 8%
New center feasible: yesno	Elevation with relation to existing streets:
Size of supporting area	above gradebelow grade
Schools:	Heavy grading needed:
Elementarydistance	for streetsfor lots
High Schooldistance	Swamp areaspockets
Nursery Schoolsdistance	Type of soil
Churches:	Rock outcrop or depth of soil cap
Number	Heavy woodsopenopen
Denominations	Type of development indicated by check list:
Distances	Single Family Detached
Recreations: Name Distance	Group
Parks	Row
Playgrounds	Garden apariments
Other	
Other facilities such as library, colleges, etc.	Small Shopping Center
Other racinities soon as nordry, coneges, etc	Other
Environment Factors—Tract—Surrounding Area	Large Lots required—estimated size
Zoning	Price range indicated by survey
	Current Market Demand
Private Covenants	Rating of site for various uses:
Subdivision Regulations	Are indicated uses permitted by zoning or covenants?
Surrounding development: kind	Remarks:
goodpoor	***************************************
Tract abuts heavily traveled thoroughfare:	***************************************
Yes No	***************************************

How to Grade a Site

GRADE MARK ON STAKE

GRADE MARK ON STAKE

GRADE MARK ON STAKE

GRADE MARK ON STAKE

GRADE ELEV F2-0

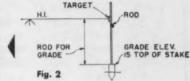
Fig. 1

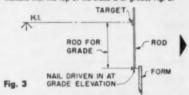
SETTING OF GRADE STAKES: The surveyor very often is called upon to "give grade." This means that he must set marks, like tops of stakes, nails an forms, and keel marks or required elevations. Where the required elevation itself cannot be marked, giving grade consists of marking reference points at one or the construction, which are definite distances above or below actual grade. Where the grade marks are not placed directly on the forms or other parts of the work, they are transferred to the work by corpenter's levels and rules.

CUT AND FILL: When the grade elevation (elevation of future construction) is below the grade mark placed on a stoke, cut is indicated. A mork set 2°-0" obove the actual grade elevation is noted as cut 2°-0" or C 2°-0". When the final grade elevation is above the grade mark placed on a stoke, fill is indicated. A fill would be marked F 3°-0". The two cases are indicated in Fig. 1.

PROCESS OF SETTING GRADE MARKS: The problem is to set a mark at an elevation marked on the plans. The height of instrument is determined by a backsight on a bench mark. The grade elevation is known as the "Rad For Grade" and is determined from the following formula:

Rad for Grade = H.I. (height of instrument) — Elevation of Grade. Suppose H.I. has been determined as 104.23'. Grade elevation for the first floor of the building is 98.67'. It is desired to set tops of stakes at elev. 98.67' for reference during construction. Compute rad for grade = 104.23'—98.67' = 5.56'. Set target on rad at 5.56' and drive a stake in the ground until the target on the rad intersects the line of sight of the H.I. Top of the stake is then at the desired elev. 98.67'. The top of the stake should be keeled to indicate that the top of the stake is at grade, Fig. 2.





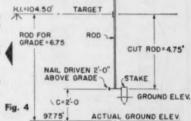
TO GIVE GRADE ON INSIDE OF FORM: To give grade on the inside of a form (Fig. 3) or other vertical construction surface, the same procedure is followed. A nail is usually driven in at grade elevation. When no support such as the top of a stake or a side of a form is available to mark the proper grade elevation, it is customary to set grade stakes at a certain number of half feet above or below grade. The number of half feet used is often different attakes, and the stakes worked accordingly. To accomplish this, set the target a certain number of half feet above or below the value of the rad for grade.

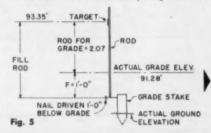
Suppose H.I. = 104.50° , grade elev. = 97.75° . Rod for grade = 104.50° — 97.75° = 6.75° . If the target is set at 6.75° , the ground elevation will be above the grade elevation. Therefore, a nail will be set on the grade stake at some half foot interval above the actual grade elevation (See Fig. 4).

To determine the amount of the interval C, take a reading on the ground where the stake was driven. Suppose this rod reading is 5'. Then it will be possible to drive a nail into the grade stake which will be 2'-0" above grade. To calculate the target setting for a 2'-0" cut use the following formula:

Cut Rod = Rod for Grade - C 4.75' = 6.75' - 2.00'.

Set the target at 4.75°. The bottom of the rad where a nail is driven will be $2^{\circ}.0^{\circ\prime}$ above grade. The stake will be marked C $2^{\circ}.0^{\circ\prime}$ with an arrow pointing to the nail.





GRADE FILL: The case for fill is handled as shown in Fig. 5. Calculate Rod for Grade=93.35'—91.28'=2.07' When target is set at 2.07', the bottom of the rod will be above top of grade stake. Therefore, the noil must be driven into the grade stake which is some half foot interval below actual grade elevation.

To determine proper amount of interval F to use, take a reading on the rad with it held on the ground next to the grade stake. If this had been 3.35' it would indicate $F=1'\cdot0''$ should be used. To calculate the target setting for a $1'\cdot0''$ fill use the following formula:

Fill Rod = Rod for Grade - F 3.07' = 2.07' +1.00'

Set target at 3.07: The bottom of the rod where a nail is driven will be 1'-0" below grade. The stake should be marked F 1'-0" with an arrow pointing to the nail.

RIGHT TRIANGLE METHODS FOR LAYING OUT A BUILDING

drive a nail in the convex to the exactly of from A. To center of stake F. Extends the point of the but convenient height—cross at corners of b are broken ar removal initiative.

Establish a base line to mark out one end or side of a building. Erect stakes A and B at ends of line and drive a nail in the center of each stake to locate accurately the corners. Next drive a stake along line AB exactly 6' from A. Then drive another stake in at a point 8' from the center of stake A, and 10' from the center of stake F EAF is then a right triangle. AE extended the proper distance to point D establishes the third point of the building. Set stakes and batter boards at corners beyond corners A, B, C, and D at some convenient height—usually top of foundation wall. Attach strings to batter boards and level. Strings must cross at corners of building. Nails should be driven in the batters where strings are fastened, so that if strings are broken or removed, they can be replaced accurately. Other corners of the building should be located similarly.

A and B can be any corners of a building. Along AB measure a distance of 40' with a steel tape. Approximately at right angles to A, measure a distance of 30' to a point C. From C, measure a distance of 50'. When points C and D are exactly 50' apart, angle CAD becomes a right angle.

SITE PLANNING **Driveway Design** 25'-0" FRONT ENTRANCE GARAGE 16.0" 16'-0" WHEELBASE MAX 11.0 20,02 SIDE ENTRANCE GARAGES SCALE 1/16" = 1-0" 12° TO 15° MAXIMUM DRIVEWAY GARAGE 1/32"= 1'-0" SEMI-CIRCULAR DRIVEWAY OVERHANG 1959 AUTOMOBILES LENGTH WIDTH WHEELBASE RAMBLER AMERICAN 178.3" 73" 100" 31" 47" CADILLAC SPECIAL 225 " 80.2" 130" 35.6" 51.7" 8'-0" DRIVEWAY ENTRANCES FROM STREET SCALE 1/32" = 1-0" 7'-0" TO 7'-6" 2'-0" TO 2'-6" SCALE 1/4" = 1'-0"

LOW

WALL

REINF. CEMENT

AVERAGE WIDTH CONCRETE RUNWAYS

COMPACTED SOIL OR CRUSHED STONE

SCALE 1/2"=1'-0"

CONCRETE CURBS

Estimating Concrete Masonry

NOMINAL LENGTH OF CONCRETE MASONRY WALLS BY STRETCHERS

(Based on units 15%" long and half units 7%" long with %" thick head joints)

OF WALL	NO. OF UNITS	OF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	DF WALL	NO. OF UNITS	LENGTH OF WALL	NO. OF UNITS	OF WALL	NO. OF UNITS
0'-8"	1/2	20'-8"	151/2	40'-8"	301/2	60'-8"	451/2	80'-8"	601/2	100′-8″	751/2
1'-4"	1	21'-4"	16	41'-4"	31	61'-4"	46	81'-4"	61	101'-4"	76
2'-0"	11/2	22'-0"	161/2	42'-0"	311/2	62'-0"	461/2	82'-0"	611/2	102'-0"	761/2
2'-8"	2	22'-8"	17	42'-8"	32	62'-8"	47	82'-8"	62	102'-8"	77
3'-4"	21/2	23'-4"	171/2	43'-4"	321/2	63'-4"	471/2	83'-4"	621/2	103'-4"	771/2
4'-0"	3	24'-0"	18	44'-0"	33	64'-0"	48	84'-0"	63	104'-0"	78
4'-8"	31/2	24'-8"	181/2	44'-8"	331/2	64'-8"	481/2	84'-8"	631/2	104'-8"	781/2
5'-4"	4	25'-4"	19	45'-4"	34	65'-4"	49	85'-4"	64	105'-4"	79
6'-0"	41/2	26'-0"	191/2	46'-0"	341/2	66'-0"	491/2	86'-0"	641/2	106'-0"	791/2
6'-8"	5	26'-8"	20	46'-8"	35	66'-8"	50	86'-8"	65	106'-8"	80
7'-4"	51/2	27'-4"	2015	47'-4"	351/2	67'-4"	501/2	87'-4"	651/2	107'-4"	801/2
8'-0"	6	28'-0"	21	48'-0"	36	68'-0"	51	88'-0"	66	108'-0"	81
8'-8"	61/2	28'-8"	211/2	48'-8"	361/2	68'-8"	511/2	88'-8"	661/2	108'-8"	811/2
9'-4"	7	29'-4"	22	49'-4"	37	69'-4"	52	89'-4"	67	109'-4"	82
10'-0"	71/2	30'-0"	221/2	50'-0"	371/2	70'-0"	521/2	90'-0"	671/2	110'-0"	821/2
10'-8"	8	30'-8"	23	50'-8"	38	70'-8"	53	90'-8"	68	110'-8"	83
11'-4"	81/2	31'-4"	231/2	51'-4"	381/2	71'-4"	531/2	91'-4"	681/2	111'-4"	831/2
12'-0"	9	32'-0"	24	52'-0"	39	72'-0"	54	92'-0"	69	112'-0"	84
12'-8"	91/2	32'-8"	241/2	52'-8"	391/2	72'-8"	541/2	92'-8"	691/2	112'-8"	841/2
13'-4"	10	33'-4"	25	53'-4"	40	73'-4"	55	93'-4"	70	113'-4"	85
14'-0"	101/2	34'-0"	251/2	54'-0"	401/2	74'-0"	551/2	94'-0"	701/2	114'-0"	851/2
14'-8"	11	34'-8"	26	54'-8"	41	74'-8"	56	94'-8"	71	114'-8"	86
15'-4"	111/2	35'-4"	261/2	55'-4"	411/2	75'-4"	561/2	95'-4"	711/2	115'-4"	861/2
16'-0"	12	36'-0"	27	56'-0"	42	76'-0"	57	96'-0"	72	116'-0"	87
16'-8"	121/2	36'-8"	271/2	56'-8"	421/2	76'-8"	571/2	96'-8"	721/2	116'-8"	871/2
17'-4"	13	37'-4"	28	57'-4"	43	77'-4"	58	97'-4"	73	117'-4"	88
18'-0"	131/2	38'-0"	2815	58'-0"	431/2	78'-0"	581/2	98'-0"	731/2	118'-0"	881/2
18'-8"	14	38'-8"	29	58'-8"	44	78'-8"	59	98'-8"	74	118'-8"	89
19'4"	141/2	39'-4"	291/2	59'-4"	441/2	79'-4"	591/2	99'-4"	741/2	119'-4"	891/2
20'-0"	15	40'-0"	30	60'-0"	45	80'-0"	60	100'-0"	75	120'-0"	90

NOMINAL HEIGHT OF CONCRETE MASONRY WALLS BY COURSES

(Based on units 7%" high and %" thick mortar joints)

					*		
OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS	HEIGHT OF WALL	NO. OF UNITS
0'-8"	1	8'-8"	13	16'-8"	25	24'-8"	37
1'-4"	2	9'-4"	14	17'-4"	26	25'-4"	38
2'-0"	3	10'-0"	15	18'-0"	27	26'-0"	39
2'-8"	4	10'-8"	16	18'-8"	28	26'-8"	40
3'-4"	5	11'-4"	17	19'-4"	29	27'-4"	41
4'-0"	6	12'-0"	18	20'-0"	30	28'-0"	42
4'-8"	7	12'-8"	19	20'-8"	31	28'-8"	43
5'-4"	8	13'-4"	20	21'-4"	32	29'-4"	44
6'-0"	9	14'-0"	21	22'-0"	33	30'-0"	45
6'-8"	10	14'-8"	22	22'-8"	34	30'-8"	46
7'-4"	11	15'-4"	23	23'-4"	35	31'-4"	47
8'-0"	12	16'-0"	24	24'-0"	36	32'-0"	48

HOW TO USE THESE TABLES

The tables on this page are an aid to estimating and designing with standard concrete masonry units. The following are examples of how they can be used to advantage.

Example:

Estimate the number of units required for a wall 76' long and 12' high.

From table: 76' = 57 units
12' = 18 courses
57 x 18 = 1026 = No. masonry units required.

Example:

Estimate the number of units required for a foundation 24' wide by 30' long by 11 courses high. 2 x 24 = 48 $2 \times 30 = 60$

108' = distance around foundation.

From table: 108' == 81 units

 $81 \times 11 = 891 = No.$ masonry units required.

This table can also be useful in the layout of a building on a modular basis to eliminate cutting of units. Example: If design calls for a wall 41' long it can be found from the table that making this wall 41'-4" will eliminate cutting units and consequent waste. Example: If the distance between two openings has been tentatively established at 2'9" consulting the table will show that 2'-8" dimension would eliminate cutting of units.

Concrete Estimating

CUBIC YARD CONTENTS OF WALLS AND SLABS

No. SQ.					THICK	(NESS OF V	VALL IN IN	CHES				
FT. IN .	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
1	.0062	.0124	.0185	.0247	.0308	.037	.043	.049	.055	.062	.068	.074
2	.0124	.0248	.0370	.0492	.0616	.074	.086	.099	.111	.123	.136	.148
3	.0186	.0372	.0555	.0741	.0924	.111	.129	.148	.166	.185	.203	.222
4	.0248	.0496	.0740	.0988	.1232	.148	.173	.197	.222	.246	.271	.296
5	.0310	.0620	.0925	.1235	.1540	.185	.216	.247	.277	.308	.339	.370
6	.0372	.0744	.1110	.1482	.1848	.222	.259	.296	.333	.369	.407	.444
7	.0434	.0868	.1295	.1729	.2156	.259	.302	.346	.385	.431	.475	.518
8	.0496	.0992	.1480	.1976	.2464	.296	.345	.395	.444	.493	.542	.592
9	.0558	.1116	.1665	.2223	.2772	.333	.389	.445	.499	.554	.610	.666
10	.0620	.1240	.1850	.2470	.3080	.370	.432	.494	.555	.616	.678	.740
20	.124	.248	.370	.492	.616	.740	.864	.988	1.108	1.232	1.356	1.480
30	.186	.372	.555	.741	.924	1.110	1.296	1.482	1.665	1.848	2.034	2.220
40	.248	.496	.740	.988	1.232	1.481	1.728	1.976	2.220	2.464	2.712	2.960
50	.310	.620	.925	1.235	1.540	1.852	2.160	2.470	2.775	3.080	3.390	3.704
60	.372	.744	1.110	1.482	1.848	2.222	2.592	2.964	3.330	3.696	4.068	4.444
70	.434	.868	1.295	1.729	2.156	2.592	3.024	3.458	3.885	4.312	4.746	5.184
80	.496	.992	1.480	1.976	2.464	2.962	3.456	3.952	4.440	4.928	5.424	5.924
90	.558	1.116	1.665	2.223	2.772	3.333	3.888	4.446	4.995	5.544	6.102	6.666
100	.62	1.24	1.85	2.47	3.08	3.70	4.32	4.94	5.55	6.16	6.78	7.41
200	1.24	2.48	3.70	4.92	6.16	7.40	8.64	9.88	11.08	12.32	13.56	14.80
300	1.86	3.72	5.55	7.41	9.24	11.10	12.96	14.82	16.65	18.48	20.34	22.20
400	2.48	4.96	7.40	9.88	12.32	14.81	17.28	19.76	22.20	24.64	27.12	29.60
500	3.10	6.20	9.25	12.35	15.40	18.52	21.60	24.70	27.75	30.80	33.90	37.04
600	3.72	7.44	11.10	14.82	18.48	22.22	25.92	29.64	33.30	36.96	40.68	44.44
700	4.34	8.68	12.95	17.29	21.56	25.92	30.24	34.58	38.85	43.12	47.46	51.84
800	4.96	9.92	14.80	19.76	24.64	29.62	34.56	39.52	44.40	49.28	54.24	59.24
900	5.58	11.16	16.65	22.23	27.72	33.33	38.88	44.46	49.95	55.44	61.02	66.66
1000	6.20	12.40	18.50	24.70	30.80	37.04	43.20	49.40	55.50	61.60	67.80	74.06

HOW TO USE THIS TABLE

This table gives the cubic yard factors to use in estimating quantities of concrete required for walls, slabs, walks or drives when the square footage is known.

Example: Find the number of cubic yards of concrete required for the walls of a foundation 24' x 30' x 8' - 10" thick.

2 x (24 + 30) x 8 = 864 sq. ft.
Use factors from table for 10" wall thickness:

800 sq. ft. = 24.64 cu. yds.

60 sq. ft. = 1.848 cu. yds. 4 sq. ft. = .123 cu. yds. 26.611 cu. yds. of concrete required.

Where concrete thickness is an odd number of inches use factors for double the thickness and divide result by 2. Example: For 9" walls use 18" factors and divide final quantity in half.

CONCRETE FOOTING QUANTITY FACTORS

	(Co. 18. per 10 Lin. Fr.)													
DEPTH IN -	WIDTH OF FOOTING IN INCHES													
INCHES	6	8	10	12	14	16	18	20	22	24				
6	.093	.124	.154	.185	.217	.248	.278	.308	.340	.370				
8	.124	.165	.205	.247	.289	.330	.370	.410	.451	.494				
10	.155	.206	.256	.308	.360	.412	.462	.512	.564	.616				
12	.185	.247	.308	.370	.432	.494	.555	.616	.678	.740				
14	.216	.288	.360	.432	.504	.576	.648	.720	.792	.864				
16	.247	.329	.410	.494	.576	.658	.739	.820	.904	.988				
18	.278	.370	.462	.555	.648	.740	.832	.924	1.017	1.110				
20	.309	.411	.513	.617	.720	.820	.924	1.024	1.130	1.234				
22	.339	.452	.564	679	.791	.900	1.016	1.128	1.243	1,358				
24	.37	.494	.616	.740	.864	.988	1.110	1.232	1.360	1.480				

HOW TO USE THIS TABLE

This table gives the cubic yard factors to use in estimating quantities of concrete required for footings when the total lineal feet is known. Example: Find the number of cubic yards of concrete required for a footing 18" wide, 10" thick for a foundation wall 24' x 30' $2 \times (24 + 30) = 108 \text{ lin. ft.}$

From the table it is found that 10 lin. ft. of 18" x 10" footing contains .462 cu. yds. (or .0462 for 1 lin. ft.)

Multiply .0462 x 108 = 4.989 cu. yds. or .462 x 10.8 = 4.989 cu. yds. concrete required

NOTE: This table is also useful in estimating the quantity of earth to be removed from footing excavations. Follow the same procedure as outlined above.

TABLE 1 FOUR-INCH MODULAR-BRICK FACING WALLS **RUNNING BOND**

(Full Bed and Head Joints)

Nominal Size	Number of Brick per Sq. Ft. of	Cu. Ft. o per Sq. Ft.	f Mortar of Wall**	Cu. Ft. of Mortar per 1000 Brick**		
of Brick*	Wall	¾" Joint	1/2" Joint	%" Joint	½" Joint	
2-2/3x4x8	6.75	8060.0	0.0765	8.90	11.30	
2-2/3x4x12	4.50	0.0535	0.071	11.90	15.80	
2x4x12	6.00	0.0676	0.09	11.30	15.00	
4x4x8	4.50	0.0432	0.0575	9.60	12.80	
4x4x12	3.00	0.039	0.052	13.00	17.30	

^{*}Actual size plus thickness of one joint **10% added for waste

MODULAR-BRICK

In Table 1 are quantities of units and mortar required to construct a 4-in. wall using 5 sizes of modular brick with two joint thicknesses. The mortar quantities shown are for the bed and head joints only. If this facing is to be applied to a backup wall, the quantity of mortar required for the interior vertical or collar joint must be added. These quantities are as follows:

.0313 cu. ft. for 1 sq. ft. mortar joint 34-in thick.

.0365 cu. ft. for 1 sq. ft mortar joint 1/4-in thick.

.0417 cv. ft. for 1 sq. ft. mortar joint 1/4" thick.

The brick quantities shown are for brick laid in running bond. For other bonds in which full headers are used, the correction factors in Table 4 must be added. The 2-2/3x4x8-in. size brick is commonly referred to as the "Standard Modular" size.

TABLE 2 EIGHT- AND TWELVE-INCH BRICK BACKUP WALLS IN RUNNING BOND

(Full Bed, Head and Collar Jaints)

Nominal Size of	Number	8" Cu. Ft. of	Wall Morter**	Number	12" Cu. Ft. of	Wall Mortar**
Brick*	Brick	36" Joint	Va" Joint	Brick	3s" Joint	1/2" Joint
2-2/3x4x8 4x4x8	13.50 9.00	0.1544 0.1210	0.1988 0.1610	20.25 13.50	0.2489 0.1984	0.3211 0.2641

*Actual size plus thickness of one joint **10% added for waste

Mortar for interior vertical joints (parging or plastering) per 100 sq. ft. of joint.

36"	joint3.13	cu.	ft.
1/4"	joint3.65	cu.	ft.
	inint 4 17		

TABLE 3

NON-MODULAR SOLID-BRICK WALLS IN RUNNING BOND

(No headers, or pattern made with blind headers)

WALL	4-IN.	WALL	8-IN.	WALL	12-IN	WALL	16-IN	. WALL
AREA SQ. FT.	No. OF BRICK	CU. FT. MORTAR						
1	6.16	.0271	12.32	.19	18.48	.3	24.64	.4132
10	62	.721	124	1.86	185	3	247	4.2
20	124	1.5	247	3.72	370	6	493	8.3
30	185	2.2	370	5.6	555	9	740	12.4
40	247	2.9	493	7.5	740	12	986	16.6
50	308	3.6	616	9.3	924	15	1232	20.7
60	370	4.4	740	11.15	1109	18	1479	24.8
70	432	5.1	863	13	1294	21	1725	29
80	493	5.8	986	14.9	1479	24	1972	33.1
90	555	6.5	1109	16.75	1664	27	2218	37.2
100	616	7.25	1232	18.6	1848	30	2464	41.4
200	1232	14.5	2464	37.2	3696	60	4928	82.7
300	1848	21.7	3696	55.75	5544	90	7392	124
400	2464	29	4928	74.33	7392	120	9856	165.3
500	3080	36	6160	92.90	9240	150	12320	207
1000	6160	72.1	12320	185.8	18480	300	24640	413.2

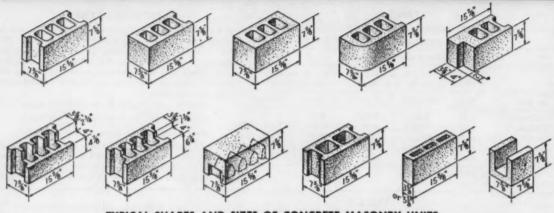
NOTE: 1/4" joints completely filled, including vertical interior joints of 8-in., 12-in. and 16-in. walls. For estimating number of facing and backup brick in any particular type of bonds use correction factor Table 4.

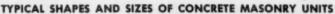
TABLE 4

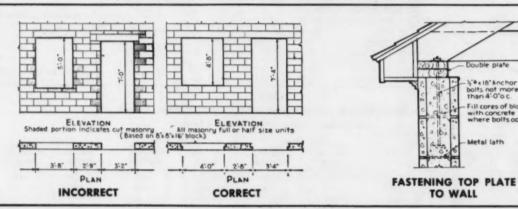
CORRECTION FACTORS TO BE APPLIED TO 4-INCH WALL QUANTITIES FOR ESTIMATING THE REQUIRED NUMBER OF FACING BRICK IN VARIOUS BONDS

TYPE OF BOND	FACTO	
Common bond with full header every 5th course	. 20% or	1/5
Common bond with full header every 6th course	.16.7% or	1/6
Common bond with full header every 7th course	.14.3% or	1/7
English bond, alternate courses full headers	. 50% or	1/2
English or Dutch bond with full headers every 6th course and blind headers in intermediate courses		
Flemish bond, alternate stretchers and full headers every course		
Flemish bond, with stretchers and full headers every 6th course, intermediate courses with blind headers		
Flemish cross bond, alternate courses with stretchers and headers		
Double header and stretcher every 6th course	8.3% or	1/12
Double header and stretcher every 5th course	. 10% or	1/10

Concrete Block and Brick Details

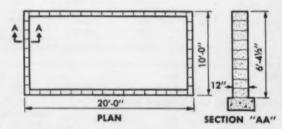






HOW TO TAKE OFF QUANTITIES OF CONCRETE BLOCK

ESTIMATING STRETCHER AND CORNER BLOCKS: Areas of all openings should be deducted from the total wall surface to get the net area of wall. From this the number of stretcher blocks and the number of corner blocks can be determined.



AREA OF THE WALL: From the perimeter of the wall, deduct four times the thickness of the wall, and multiply by the height of the wall. This is the area of the wall for masonry estimating. The formula avoids doubling of corners.

Example: Find the area of the wall in the plan and section shown: The perimeter of the wall is

20' + 20' + 10' + 10' = 60 linear feet. 60 - 4 (corners) = 56 lin. ft.

Multiply: 56 lin. ft. by the height of wall, or 56 x 6.37 = 356.72 sq. ft. or 357 sq. ft.

When the square feet of the wall are known, refer to Table 1

TABLE 1 CONCRETE BLOCK

ng	the	number	of	blocks	per	100	sq.	ft. of	wall.	

bolts not more than 4'-0'o c. Fill cares of black with concrete where bolts occur

Metal lath

Size of Block	Wall Thickness	Number of Units per 100 sq. ft. of Wall	Mortar (cu. ft.)
8 x 8 x 16	8	110	3.25
8 x 8 x 12	8	146	3.50
8 x 12 x 16	12	110	3.25

There.ore: 357 + 100 = 3.57 110 blocks - 100 sq. ft. 357 sq. ft. = 3.57 x 110 = 393 blocks.

CORNER BLOCKS: The height of the wall is 6'-41/2" or 761/2 inches. 761/2 + 8 (height of block) = 9 courses of block. Each corner has 9 blocks, 4 corners have 36 blocks.

> Total blocks = 393 Corner blocks -36

357 Stretcher Blocks

Concrete Data

RECOMMENDED MIXES FOR SEVERAL CLASSES OF SMALL-HOUSE CONSTRUCTION

Kind of Work		gallons of w to add to each 1-sack batch		Ti	Mazimum		
RING OF WORK	Damp sand & coarse aggregate	Wet sand . & coarse aggregate	Very wet sand & cse, agg.	Cement	Sond	Coarse Aggregate	size
Foundation walls which need not be watertight, mass concrete for footings, retain- ing walls, garden walls, etc.	614	Average sand 51/2	4%	sacks 1	cu. ft.	cu. ft.	in. 11/2
Watertight basement walls, walls above ground, Well curbs and platforms, cisterns, septic tanks, watertight floors, sidewalks, stepping-stone and flagstone walks, driveways, play courts, porch floors, basement floors, steps, piers, columns, etc.	51/2	Average sand	41/4	1	21/4	3	11/2

Source: National Association of Home Builders Research Institute

HOW TO LAY CONCRETE IN COLD WEATHER

1. Heat the Materials

- a. Have concrete temperatures between 50° and 70° for slabs and building frames.
- b. For air temperatures between 30°and 40° F., heat the mixing water.
- c. For air temperatures below 30° F., heat mixing water and sand or both sand and coarse aggregate.
- d. Cover aggregate piles with tarps while heating.
- e. Avoid frozen aggregate lumps in concrete at time it leaves the mixer.
- f. Don't overheat. It may result in flash set.

2. Use Accelerators Carefully

- a. Don't use more than 2 lb. of calcium chloride per sack of cement to hasten hardening.
 b. Don't depend on any chemicals to prevent freezing.
 c. Don't use calcium chloride with other mixtures which acceler-
- ate hardening.

3. Provide Suitable Curing Temperatures

- a. Maintain temperature of concrete at 70° or above for three days or 50° or above for five days.
- Maintain temperature of high-early-strength concrete at 70° or above for two days or 50° or above for three days.
- c. Do not allow concrete to freeze during next four days.
- d. Cool concrete gradually at rate of one to two degrees per

4. Protect the Concrete

- a. Insulation without artificial heat is often sufficient protection
- for slabs on ground and heavy sections.

 b. At lower temperatures, housing and artificial heat are neces-
- c. Raise heating units above floor to avoid rapid drying of concrete underneath.
- d. Keep concrete moist, especially near heating units.

Remove Forms at Proper Time

a. Allow ample time for concrete to attain required strength.

COLD-WEATHER CONCRETE-MASONRY CONSTRUCTION

If the air temperature is:

Below 40 Deg. F. But Above Freezing

All masonry materials should be covered and properly stored to prevent them from becoming wet from rain, ice or snow. The mixing water should be heated, but not over 160 deg. F. Temperature of mortar when placed in the wall should not exceed 100 deg. F. or be less than 70 deg. F. Protective coverings should be placed over the newly laid masonry walls.

Below Freezing But Above O Deg. F.

In addition to the preceding requirements the sand should be heated. The working area should be enclosed with protective coverings and artificial heat should be provided by salamanders or

Balance of material courtesy Portland Cement Association.



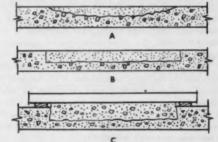


COMPACTING: To compact concrete in foundation walls, a mechanical vibrator is ideal (although puddling or spading the concrete down is perfectly acceptable). Vertical penetration of vibrator, above, left, a few inches into previous lift at systematic regular intervals will give adequate consolidation. Random penetration, above, right, will not insure combination of layers, and will distribute aggregate badly.





PLACING SLAB CONCRETE: Concrete should be dumped into face of previously placed concrete, as above, left. Dumping away from previously placed concrete, above, right, causes separation.



PATCHING: Incorrect (A) and correct (B) methods of installing a patch are shown. The chipped area should be at least one inch deep with the edges at right angles to the surface. Correct method of screeding patch is shown above (C). The new concrete should project slightly beyond the surface of the old concrete. It should be allowed to stiffen and then troweled or otherwise finished to match and be flush with adjoining surfaces.

portable heaters. When the temperature falls below 20 deg. F. all concrete-masonry units (hollow and solid) should be heated to at least 50 dea. F.

Below 0 Deg. F.

Concrete-masonry construction should be stopped unless for emergencies, when great care must be taken to insure complete and tight enclosures plus all the preceding requirements.

Concrete Admixtures

Admixtures are any materials other than water, aggregates, or cement added to concrete before or during mixing to make the concrete more suitable to a particular type of work. They will retard the concrete's setting time or accelerate it, and will entrain air or gas to help it withstand frost action or gas to counteract shrinkage and bleeding. They will increase concrete's workability and its resistance to corrosion. They will dampproof the concrete, make it water repellent, hasten or retard its flowability, and control shrinkage. Handled with reasonable caution—they sometimes after the normal strength of concrete—admixtures give concrete new dimensions.

To accelerate set time:

Agents such as calcium chloride added up to 2% of the weight of portland cement will increase the rate of early hardening. This permits early removal of forms, creates a shorter curing period, advances the time when the concrete structure can be put in service, compensates for the retarding effect of other admixtures.

To retard set time:

Retarders are added to concrete in hot weather to prevent false set and to permit placing concrete in difficult positions. Builders sometimes place them on the inside of form faces to retard setting of the outside face of the concrete. This permits the builder to later brush away the laitance and expose the aggregate, creating a textural effect. Common retarders include starches, or cellulose products, sugars and acids, or salts of acids that contain one or more hydroxl groups. They must be added to concrete in very small amounts.

To resist freezing:

Air entraining agents added to concrete incorporate small amounts of air in minute bubbles to help the concrete resist frost action. Air entraining also makes the concrete lightweight, and increases its plasticity and workability. Air entraining agents include natural wood resins, fats, various sulfonated compounds, and oils.

To counteract shrinkage:

Gas-forming agents will reduce shrinkage and bleeding in plastic concrete. Gas dispersed in concrete by generating agents also improves its resistance to frost but to a lesser degree than air—and produces a lighter weight concrete or mortar. Aluminum powder added at a ratio of 1 teaspoonful to each sack of cement reacts with the hydroxides in the hydrating concrete to produce minute bubbles of hydrogen. Adding the powder at a rate of ¼ lb. to a sack of cement makes the concrete lightweight. Other gas-forming agents include zinc and magnesium powder, hydrogen peroxide and bleaching powder.

To increase workability:

Cementitious agents substituted for 10 to 25% of the weight of portland cement increase the concrete's workability, decrease bleeding and heat of hydration. A drawback is that they decrease the concrete's strength and must be added with care. The group includes natural cements, hydraulic lime, slag cement, and the pozzolans.

To reduce permeability:

Pozzolans substituted for part of the cement factor reduce concrete's permeability and increase its resistance to sulfates and the corrosive action of sea water. Pozzolans also add to concrete's workability. This group of admixtures includes fly ash, volcanic ash, heat-treated diatomaceous earths, and either heat-treated or raw shales and clays.

To dampproof:

Agents that dampproof concrete and reduce its permeability generally are classified as "soaps." They are inorganic salts of fatty acids such as calcium or ammonium stearate, or oleate. These soaps also increase the workability of the plastic concrete. Heavy mineral oil will make concrete water repellent. But it should not contain vegetable or mineral components and should have a viscosity of about SAE 60. Asphalt cutback oils and asphalt emulsions will also serve the purpose.

To add plasticity:

These agents will increase concrete's workability, a vital factor when concrete must be placed around closely spaced reinforcing, must be pumped, or chuted long distances. This group includes the powdered admixtures such as hydrated lime, diatomaceous earth, bentonite, fly ash. These admixtures generally are added to the concrete during batching, though sometimes they are premixed with dry cement. Large quantities of finely powdered admixtures in concrete tend to require a higher water-cement ratio than normal. Unless proper adjustments are made in the mix, some adverse effect can be expected in the concrete's strength, durability, and drying shrinkage. Air and gas entrainment also increase concrete's workability.

To hasten or retard grout set:

Calcium chloride or triethanolamine added to grout will hasten its set when it must work as a plugging agent. Mucic acid and other patented chemicals will retard its set to increase its pumpability and flow. Grout retarders include fly ash, bentonite, pumicite, and diatamaceous earth.

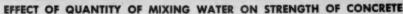
To offset shrinkage:

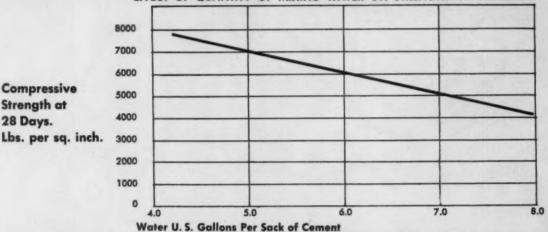
Expanding agents are made by burning a mixture of gypsum, bauxite, and limestone to create a sulfoaluminous cement which, added to concrete, offsets shrinkage. Powdered iron and an oxidizing agent added to portland cement also make a non-shrinking concrete.

Other admixtures:

A variety of admixtures on the market will improve concrete's wear resistance, make it harder or softer (asphalt), foam it, make it easy to saw, and add color. Lumber yards and building material supply stores carry virtual chemical plants on their shelves.

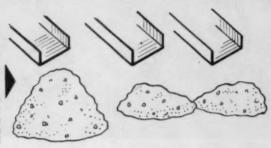
Mixing Concrete, Placing, Selection of Aggregate Combinations





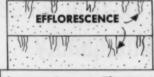
PREVENTION OF SEGREGATION: Segregation of concrete means the separation of the heavy materials, such as the aggregates, from the lighter materials, sand and cement, when the concrete is poured into the forms. Constant supervision is essential to insure complete filling of the forms to prevent the common practice of depositing continuously at one point. Allowing the material to flow over a long distance will cause segregation.

Excessive amounts of tamping or shoveling in the forms will also cause the materials to separate. When the concrete is properly proportioned, the entrained air will escape and the mass will be thoroughly consolidated with very little shoveling. Light spading of the concrete next to the forms will prevent honeycombing and make surface finishing easier.



POOR PRACTICE-WILL CAUSE SEGREGATION

GOOD PRACTICE



SECOND DAY'S CAST

FIRST DAY'S CAST

ELEVATION OF WALL SHOWING LAITANCE PREVENTION OF LAITANCE: Laitance is the formation of a froth of light materials on the surface of fresh concrete. It can only form from the presence of excess water, which causes the upper portion of a freshly poured concrete wall to be porous. The removal of a small layer of laitance still leaves several inches of porous concrete through which water will pass even under moderate pressure. The effect of this porous layer at the top of each day's work can be seen in many structures subject to water pressure. The lower portion of the layer is found to be hard and dense while the upper portion shows efflorescence due to passage of

SELECTION OF AGGREGATE COMBINATIONS: The relative proportions of fine and coarse aggregates and the total amount of cement and water depends not only on the consistency of concrete required, but also on the grading of each aggregate. A combination of aggregates made up largely of coarse particles offers less total surface to be coated with cement paste than aggregates of fine particles.

For economical purposes, it is more desirable to use the lowest proportion of fine aggregate which will properly fill the spaces between coarse aggregates. Aggregates that are graded so that they contain many sizes are more economical than aggregates in which one or two sizes predominate, because the former contain fewer voids. The small particles fill the spaces between the larger particles which otherwise must be filled with cement paste. A properly proportioned combination of well-graded fine and coarse aggregates contains all sizes between the smallest and largest without an excessive amount of any one size.







COARSE AGGREGATE

LESS TOTAL SURFACE TO BE COATED WITH CEMENT - (MORE EONOMICAL)

FINE AGGREGATE MORE TOTAL SURFACE TO SE COATED WITH CEMENT (LESS ECONOMICAL)

MANY SIZE AGGREGATE ECONOMICAL - NO VOIDS BEST COMBINATION



Specify Du Pont Polyethylene Film for moisture protection... Get aids to promote this built-in value ... Profit from recognition of Du Pont quality

You get extra value from Du Pont film at no extra cost. And these display aids for your model home will now help buyers to "see" the extra care you've taken to protect against dampness.

1. "Welcome Walk-in" strip of sturdy polyethylene film keeps floors and rugs clean... promotes quality symbol, the Du Pont name. 2. Sample sheet of film. 3. Salesroom Display Sign lists, at a glance, all the advantages of moisture-vapor protection. 4. Basement Hang Tag points out benefits of film under slab. 5. Hidden Pro-

tection Arrow shows where polyethylene film is used in crawl space.

All this comes with tough, low-cost Du Pont Polyethylene Film—the best possible barrier against moisture.

The man to see? The dealer who displays this decal as a symbol of quality. He also has cost-cutting installation ideas for you. Or write: E. I. du Pont de Nemours & Co. (Inc.), Film Dept., Wilmington 98, Delaware.







Newest thing in home building! Builders can find in concrete shell roofs plenty to stimulate sales interest. The variety of shapes is almost limitless—from angular folded plate to sweeping arcs. Many shell roof homes already have been built. Precasting of roofs, and reusable forms, are making shells even more practical. Concrete shells have much to offer in economy, in spanning ability—and in the fresh beauty that excites buyer interest. A big appeal is the fire-safety and low upkeep only concrete offers. Concrete is the material of modern living. From new-look walls to "pebbled" patios, concrete is helping to create sales!

For the newest in homes . . .

LIVING CONCRETE

PORTLAND CEMENT ASSOCIATION

. . . A national organization to improve and extend the uses of concrete

BRAND NAMES DIRECTORY

(Continued from page 88)

KEYWALL Keystone Steel & KEYWELD Keystone Steel &

Wire Co KIMAX Owens-Illinois

KIMAX Owens-Illinois
KING-SIZE Logan Clay Prods
KINGS FAIRWAY Kingston
Mills Inc
KINGS PLUSH Kingston Mills
KINGSTREND Kingston Mills
KINTRIM Kinkead Industries
KITCH-N-HAND Washington

Steel Products
KITCH-N-VENTOR Universal Blower Co

KITCHEN-AIRE Stewart Industries Inc KITCHEN MAID Kitchen Maid KITCHENAID Hobart Mfg Co KLEARTONE Standard-Toch Chemicals Inc KLEEN-AIRE Hudson H D

Mig Co KLEENEDGE Sunbeam Plastics KLEENOLENE Thomas Moulding Floor Co Inc KLEFTONE Johns-Manville KLIP-LOK Globe Roofing

Products Co Inc KLIP-TIP Rutland Fire Clay

KLIPBILT Frick-Gallagher Mfg Co Inc KNOX-OUT Pennsalt

Chemicals Corp
KOL-MASTER Kol-Master Corp KOLOR-BRITE Martin-Senous

KOLORPINS Independent Nail

& Packing Co

& Monut Selby Battersby & Co

KONSEAL Sullivan Co

KONSET Sullivan Co KONTITE Sullivan Co KOOLSHADE Reflectal Corp KOOLVENT Koolvent Metal

Awning Corp.
KORALUM Lyf-Alum Inc
KORD Sterling Quality Prods
KORDUCT Johns-Manville
KORINA US Plywood Corp KORK-PAK Servicised Pro KORKER Mobile Paint Mfg

KORKER US Expansion Bolt KOROSEAL Goodrich B F

Flooring Products
KOROSEAL Goodrich B F
Industrial Products
KORPAK Dunn W E Co KOSMORTAR Kosmos Portland

KOSMOS Kosmos Portland Co

KOVELOCK Parker S Hardware Mfg Corp KOVEN Koven L O & Bros KOVEN VENKO Waterfilm

KOVERLUM US Aluminum Siding Corp KOVERSTONE US Aluminum

Siding Corp KOVERTEX US Aluminum

Siding Corp
KRAK-TITE Sterling Quality Products Inc

KRETE-KUT Bay State Abrasive Products Co KUROKROME Master Builders KUSHIONED Extension Drawer

Support Co KUTZIT Savogran Co

KUTZIT Savogran Co KWENCH-KOTE American Asbestos Product Co KWIK-ROC Horn A C Cos KWIK-SENSOR White-Rodgen KWIK-WAY Hart & Colley MI KWIKCHANGE Leviton Mfg Co Inc

KWIKEEZE Savogran Co KWIKSET Kwikset Div American Hardware KYANIZE Kyanize Paints Inc

L K Miami General Air Conditioning Div LA PERLA Acme Brick Co LAFAYETTE Irmanton Prods

LAG-SHIELDS Rawplug Co LAMIDALL Woodall Indust LAMINART Lamin Art Industries Fabricon Products

LAMP-LYTER International Register Co
LANCER Copymation Inc
LANDMARK Lennox Industries
LANES 3-TY Lanebro Mfg Co LANGDON-ACME Millers LANSCO Landers Segal Color LARSEN-MIX Larsen Products LASTIKKALK Lastik Paint

LATEX CONCRETE
TOPPING Camp Co Inc
LATEX FILL-CRETE Penn

Crete Prods Co LATEX LIQUID FELT Camp LAUNDROMAT Westinghouse Electric Corp

LAVAX Pittsburgh Plate Glass LAYKOLD American Bitumuls & Asphalt Co LAYRITE Standard Paste &

Glue Co Inc LAYTITE Connor Lumber & Land Co LCN LCN Closers Inc

LEAD-SEAL Deniston Co LEADER Lufkin Rule Co LEADTEX Rever Copper &

LEATHERITE Insulite Div LEATHERWOOD Masonite LEBANEX Cascades Plywood LEBANEX US Plywood Corp LEBANITE Cascades Plywood LECO LATCH Laboratory

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(Continued on page 132)

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Let us prove to you that the Rocform System of concrete wall construction will:

- Set up, pour and strip faster than any other system of concrete forms available today.
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- Increase your profit from 10% to 50% over competitive systems.
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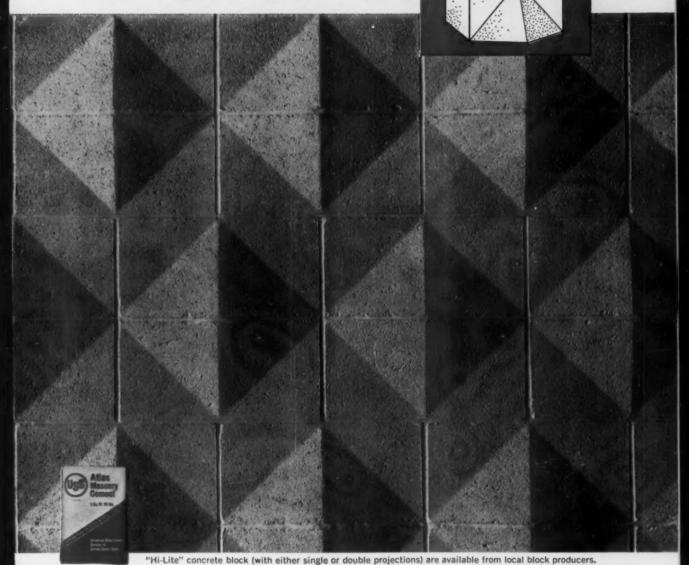
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Great new things are shaping up in concrete block



Atlas Masonry Cement provides the right mortar

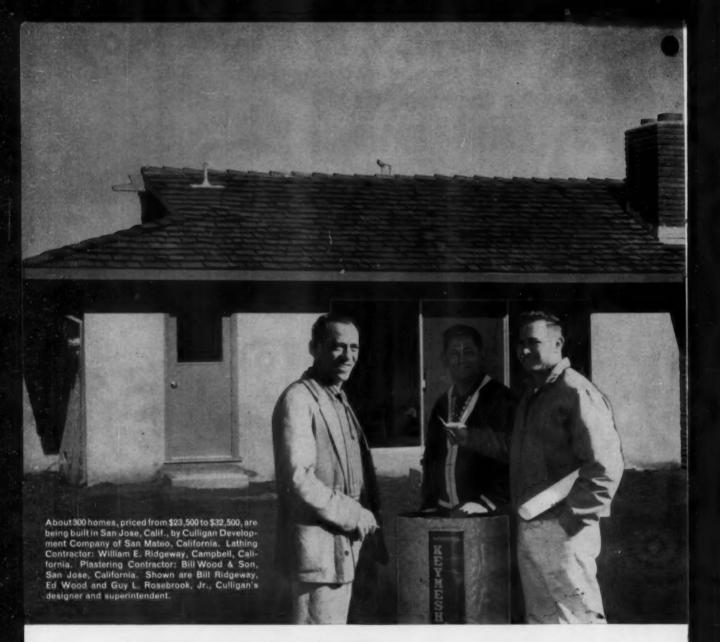
A sculptured stone look is produced with decorative "Hi-Lite" concrete block here in single half-pyramid design. In exposed masonry construction, the projected face of this unit creates unusual highlights and shadows, pyramids, prisms, diamonds, gables.

For laying up "Hi-Lite" block, as with other masonry units, ATLAS MASONRY CEMENT continues to be the preferred cement for mortar. It produces a smooth, workable mix, provides a strong bond, gives weathertight joints that are uniform in color. And ATLAS MASONRY CEMENT complies fully with ASTM and Federal Specifications. For information on masonry cement write: Universal Atlas, Dept. M, 100 Park Avenue, New York 17, N. Y.

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"INSTANT BACKING WITH

One-Step KEYMESH Paperbacked

says Thomas Culligan of Culligan Development Company, a leading Northern California builder

"It's waterproof paper, belly band wire and wire mesh lath all in one," says Mr. Culligan.

"Just once around the house with this Keymesh Paperbacked Lath and the walls are all ready to be stuccoed. "I'll admit, saying that it gives us 'Instant Stucco Walls' is somewhat of an exaggeration. But because it does allow my subs to go so quickly, we'll have the walls in this project done faster than any we've ever built."



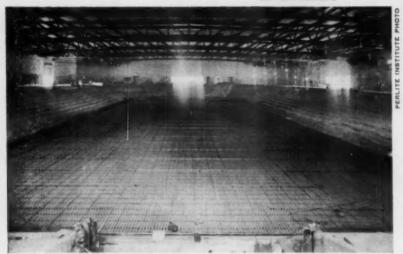
Lath for Stucco Walls,"



3 STEPS REDUCED TO 1

... before, you had to attach waterproof paper, wire mesh and belly band wire separately. Now it's done all at once, with Keymesh Paperbacked Lath.

KEYSTONE STEEL & WIRE COMPANY PEORIA, ILLINOIS



NEARLY 9 MILES of refrigerating coils overlie the insulating floor slab of Permalite insulating concrete in the L. C. Walker Sports Arena, Muskegon, Michigan, Architect: Ralph Legeman, Evansville, Ind., with Associate Architects Magnuson & Summer, Muskegon. Alstrom Construction, Inc., Muskegon, was the general contractor, and the insulating floor slab was installed by Rohn Fireproofing Co., Detroit, Michigan.

Unusual Permalite Concrete Applications Keep Ice Cold, Insulate Sloped Roof

Lightweight Permalite insulating concrete was employed recently in two interesting applications - one a floor slab, the other a roof deck.

When the million-dollar L. C. Walker Sports Arena was erected in Muskegon, Michigan, one of the requirements was easy conversion from ice hockey to basketball. Over



POURED IN PLACE by craneline dump bucket, Permalite lightweight insulating concrete is screeded to a thickness of 21/2 (over corrugations) on a corrugated steel deck, to serve as a monolithic base for the built-up roof. This type of construction is exceptionally strong and easy to erect. Insulation is excellent: finished roof deck should have a "U" value in the neighborhood of .165. Note the space for expansion joint at the coping.

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a natural sand base. Permalite insulating concrete was poured to a thickness of 11 inches. The insulating concrete, a 4:1 mix, was mixed adjacent to the job and pumped to point of placement. The refrigerating coils, almost 9 miles in length, were placed above this on special supports, and embedded in lightweight-aggregate concrete, with a structural concrete topping overall for a wear surface. About 550 cubic yards of Permalite perlite-aggregate insulating concrete were required for the 86'x201' floor. Design and construction proceeded under U.S. Patent #2,761,181.

The other application-roof deck for a new building in Texas-is equally interesting and entirely different. Here Permalite-aggregate lightweight insulating concrete was selected to provide both insulation and fire-safety. The unusual feature lies in the application to a sloping roof, a technique used in many outstanding buildings but frequently overlooked in planning buildings with other than flat roof decks.

Complete information on the application and advantages of Permalite lightweight insulating concrete and plaster may be obtained by writing to Permalite, 612 So. Flower St., Los Angeles 17, Calif.

FRANCHISEES

COLORADO

Persolite Products, Inc. 1440 W. 13th Avenue Denver 4, Colorado • AComa 2-6111

Airlite Processing Corporation of Florida Building No. 9, Air Base Vero Beach, Florida • JOrdan 2-3518

Silbrico Corporation 5901 West 66th St. Chicago 38 • REliance 5-3322 Ryolex Corporation 310 E. Bradley St. Champaign, Illinois • FLeetwood 6-4234

INDIANA

Airlite Processing Corporation
Office: Scottsburg
Plant: Vienna • PLaza 1-5538, 1-5531

MASSACHUSETTS

The Whittemore Company 118 First St. Cambridge, Mass. • Kirkland 7-6200

Gregg Products Company 646 Chestnut St. S.W. Grand Rapids, Mich. • Glendale 4-5322

Minnesota Perlite Corporation 315 West 86th St. Minneapolis 20, Minn. • Tuxedo 1-8924

J. J. Brouk & Company 1367 S. Kingshighway Blvd. St. Louis 10, Mo. • Jefferson 3-9022

& NEW YORK CITY

Certified Industrial Products, Inc. 1344 Liberty Ave. Hillside, New Jersey • Murdock 8-1921

NEW YORK

Buffalo Perlite Corporation 100 Sugg Road (Cheektowaga) Buffalo 25, New York • Plaza 4326

PENNSYLVANIA

Pennsylvania Perlite Corporation P.O. Box 694 Allentown, Penna. • Congress 4-2891 Pennsylvania Perlite Corporation of York P.O. Box 1422, York, Penna. • YOrk 47-6206 Perlite Manufacturing Company
P.O. Box 478, Arch Street Extension
Carnegie, Penna. • Walnut 1-9200 (Pitts.)

Perlite of Houston, Inc. 3010 Dixie Dr. (Office) 502 Fauna Ave. (Plant) P.O. Bex 14024 Houston, Texas • Jackson 8-2243 Texas Lightweight Products Company 117 N. Britain Rd. Irving, Texas • Blackburn 2-8181 (Irving) Riverside 2-5354 (Dallas)

Virginia Perlite Corporation
P.O. Box 687
Hopewell, Virginia • CEdar 9-4172, 9-2663

Western Perlite Company, Ltd. 429 51 Ave. S.E. Calgary, Alberta • CHestnut 3-6651

Perlite Products, Ltd. 500 Raleigh St. Winnipeg, Manitoba • LEnox 3-2521 Perlite Industries, Reg'd. 500 Canal Bank Ville St. Pierre, Quebec • Hunter 1-7098

West Indies Perlite Manufacturing Corp., S.A. Calle 23, No. 105 Mezz. Vedado, Havana, Cuba or: P.O. Box 133, Miami 1, Fla.

MEVICE

Materiales Cerr. S.A. Rio de la Plata 56-503 Mexico 5, D.F. • Telephone: 25-35-43

Permalite Aggregate Is Produced by Licensed Franchisees from Parlite Ore Mined by Great Lakes Carbon Corporation

					Lu	ımb	er	Calcu	lator	— Bo	oard F	eet		F	R	MA	IN	G
SIZE OF TIMBER	8'	10'	12'	14'	14	6'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
4 x 4	10%	131/2	16	18%	5 21	1/2	24	26%	291/2	32	34%	371/3	40	42%	451/2	48	50%	531/3
4 x 6	16	20	24	28	32		36	40	44	48	52	56	60	64	68	72	76	80
4 x 8	21%	263/2	32	371/		2/2	48	531/5	58%	64	691/2	74%	80	851/2	90%	96	101%	106%
4 x 10	26%	331/2	40	463/	5 53	1/2	60	66%	731/2	80	86%	931/3	100	106%	113%	120	1263/	1331/
4 x 12	32	40	48	56	64		72	80	88	96	104	112	120	128	136	144	152	160
4 x 14	371/2	46%	56	651	5 74	13/2	84	931/2	102%	112	121%	130%	140	1491/2	158%	168	177%	1863
4 x 16	42%	531/3	64	743	85	51/2	96	106%	117%	128	138%	149%	160	170%	181%	192	2023/3	213
6 x 6	24	30	36	42	48	3	54	60	66	72	78	84	90	96	102	108	114	120
6 x 8	32	40	48	56	64		72	80	88	96	104	112		128	136	144	152	160
6 x 10	40	50	60	70	80		90	100	110	120	130	140		160	170	180	190	200
6 x 12	48	60	72	84	96		108	120	132	144		168		192	204	216	228	240
6 x 14	56	70	84	98	112		126	140	154	168		196		224	238	252	266	280
6 x 16	42%	531/2	96		126		144	160	176	192		140%		256 170%	1911/4	288	304	320 213
8 x 8 8 x 10	531/2	66%	80			51/3	96	106%	117%	128	138%	149%		213%	181%	192	202%	2663
8 x 12	64	80	96		128		144	160	176	192	208	224		256	272	240	304	320
8 x 14	74%	931/2	112				168	186%	2051/3	224	2423/	261%		298%	3171/2	336	3543/	373
8 x 16	851/2	106%	128				192	2131/2	2343	256	2771/3	298%		3411/5	362%	384	4051/2	4263
10 x 10	66%	831/2	100				150	166%	183%	200	216%	233%		2663/	2831/2	300	3163/3	333
10 x 12	80	100	120		160		180	200	220	240	260	280		320	340	360	380	400
10 x 14	931/2	116%	140				210	2331/2	256%	280		3263/2		3731/3	3963/2	420	4431/5	4663
10 x 16	106%	133%	160	1863	5 213	31/3	240	2663/3	2931/2	320	346%	373%	400	426%	4531/2	480	5063/3	533
12 x 12	96	120	144	168	192	2	216	240	264	288	312	336	360	384	408	432	456	480
SIZE OF TIMBER	8'	10'	12'	14'	16'	18'	20'				ZE OF	8'	10'	12'	14'	16'	18'	20
1 x 2	11/4	136	2	21/2	23/5	3	3	1/2		5/4 ×	2	136	21/12	21/2	211/12	31/2	33/4	4%
1 x 3	2	21/2	3	31/2	4	41/2					3	21/2	3%	33/4	436	5	5%	61/4
1 x 4	23/2	31/2	4	43/5	51/2	6		3/3			4	* -	41/4	5	5%	63/2	71/2	81/
1 x 5	31/3	41/6	5	5%	63/5	71/2		1/3			5		5%	61/4	71/20	81/3	93/4	10%
1 x 6	4	5	6	7	8	9	10				6		61/4	71/2	83/4	10	11%	121/
1 x 8	51/2	63/5	8	9%	10%	12	13	1/2			8		81/2	10	11%	131/3	15	163/
1 x 10	6%	81/2	10	11%	13%	15	16	3/3			10	- 5 2	10%	121/2	141/12	16%	18%	20%
1 x 12	8	10	12	14	16	18	20			5/4 x	12	. 10	121/2	15	171/2	20	221/2	25
1 x 14	91/2	11%	14	161/3	18%	21	23	1/3		6/4 x	2	. 2	21/2	3	31/2	4	41/2	5
1 x 16	10%	13%	16	18%	21%	24	26	3/2		6/4 x	3	. 3	33/4	41/2	51/4	6	63/4	77
1 x 18	12	15	18	21	24	27	30			6/4 x	4	. 4	5	6	7	8	9	10
1 x 20	13%	16%	20	231/2	26%	30	33	1/3			5		61/4	71/2	81/4	10	111/4	121
											6		71/2	9	101/2	12	131/2	15
											8		10	12	14	16	18	20
											12		12/2	15	171/2	20	221/2	30
			_			_		201	20/	24'	26'	28'	30,	32'	34'	36'	38'	40
SIZE OF TIMBER	8'	10'	12	14	, 1	6'	18'	20	44			-	-					
TIMBER	8'		12			6'	18'	20'	22'			1024						
2 x 4	51/2	63/3	8	9	1/5 1	0%	12	131/2	14%	16	171/3	18%	20		*****	****	*****	****
2 x 4	51/2	6 ² / ₃	12	2 14	1 1	0¾ 6	12 18	131/2	143/2	16 24	171/2	28	30	32		****	******	****
2 x 4 2 x 6 2 x 8	51/3 8 103/3	63/4 10 131/4	12	9 9 14 5 18 18 18 18 18 18 18 18 18 18 18 18 18	% 1 1 % 2	0% 6	12 18 24	13½ 20 26¾	14% 22 29%	16 24 32	17½ 26 34¾	28 37½	30 40	32 42 ³ / ₃	451/5	48	50%	53
2 x 4 2 x 6 2 x 8 2 x 10	51/3 8 103/4 131/4	63/3 10 131/3 163/3	12	9 9 14 5 18 0 23	½ 1 1 ½ 2 ½ 2	03/5	12 18 24 30	13½ 20 26¾ 33½	14% 22 29% 36%	16 24 32 40	17½ 26 34¾ 43½	28 37½ 46¾	30 40 50	32 42 ³ / ₃ 53 ³ / ₃	45½ 56¾	48 60	50%	53
2 x 4 2 x 6 2 x 8 2 x 10 2 x 12	5½ 8 10½ 13½ 16	63/4 10 131/4 163/4 20	12 16 20 24	3 9: 2 14 5 18: 0 23: 4 28	% 1 % 2 % 2 % 2	03/3 6 11/3 163/3	12 18 24 30 36	13½ 20 26¾ 33¼ 40	14% 22 29% 36% 44	16 24 32 40 48	17½ 26 34¾ 43½ 52	28 37½ 46¾ 56	30 40 50 60	32 42 ³ / ₅ 53 ³ / ₅ 64	45½ 56¾ 68	48 60 72	50% 63% 76	53 66 80
2 x 4 2 x 6 2 x 8 2 x 10 2 x 12 2 x 14	51/3 8 103/3 131/3 16 183/3	63/4 10 131/4 163/4 20 231/4	12 16 20 24 28	9 9 14 18 18 10 23 4 28 32	% 1 1 % 2 % 2 % 3 % 3	03/4 6 11/4 163/4 12 17/4	12 18 24 30 36 42	13½ 20 26¾ 33¼ 40 46¾	14% 22 29% 36% 44 51%	16 24 32 40 48 56	17½ 26 34¾ 43½ 52 60¾	28 37½ 46¾ 56 65½	30 40 50 60 70	32 42 ³ / ₃ 53 ³ / ₃ 64 74 ³ / ₃	45½ 56¾ 68 79½	48 60 72 84	50% 63% 76 88%	53 66 80 93
2 x 4	51/3 8 10 ² /3 13 ¹ /3 16 18 ² /3 21 ¹ /3	6 ² / ₃ 10 13 ¹ / ₃ 16 ² / ₃ 20 23 ¹ / ₃ 26 ² / ₃	12 16 20 24 28 32	9 9: 2 14 5 18: 0 23 4 28 8 32 2 37	% 1 % 2 % 2 % 3 % 3	03/4 6 11/4 63/4 12 17/4 12/4	12 18 24 30 36 42 48	13½ 20 26¾ 33¼ 40 46¾ 53⅓	14 ³ / ₃ 22 29 ³ / ₄ 36 ³ / ₄ 44 51 ³ / ₄	16 24 32 40 48 56 64	17% 26 34% 43% 52 60% 69%	28 37½ 46¾ 56 65½ 74¾	30 40 50 60 70 80	32 42 ³ / ₃ 53 ³ / ₃ 64 74 ³ / ₃ 85 ³ / ₃	45½ 56¾ 68 79½ 90¾	48 60 72 84 96	50% 63% 76 88% 101%	53 66 80 93 106
2 x 4	51/3 8 103/4 133/4 16 183/4 213/4 8	63/4 10 13/4 163/4 20 23/4 263/4 10	12 16 20 24 28 32	3 9 2 14 5 18 5 0 23 4 28 8 32 2 37 2 14	½ 1 1 1 3½ 2 2½ 3 3½ 3 3½ 4 1 1	03/4 6 11/5 163/4 12 171/5 123/4 6	12 18 24 30 36 42 48 18	13½ 20 26¾ 33¼ 40 46¾ 53½ 20	14% 22 29% 36% 44 51% 58% 22	16 24 32 40 48 56 64 24	17% 26 34% 43% 52 60% 69% 26	28 37 ¹ / ₃ 46 ² / ₃ 56 65 ¹ / ₃ 74 ² / ₃ 28	30 40 50 60 70 80 30	32 42 ³ / ₃ 53 ³ / ₃ 64 74 ³ / ₃ 85 ³ / ₃ 32	45½ 56¾ 68 79½ 90¾ 34	48 60 72 84 96 36	50% 63% 76 88% 101% 38	53 66 80 93 106 40
2 x 4	5 % 8 10 % 13 % 16 18 % 21 % 8 12	6 ² / ₃ 10 13 ¹ / ₃ 16 ² / ₃ 20 23 ¹ / ₃ 26 ² / ₃	12 16 20 24 28 32	3 9 2 14 5 18 0 23 4 28 8 32 2 37 2 14 8 21	½ 1 1 1 2 ½ 2 ½ 3 3 ½ 3 ½ 4 1 1 2 2	03/4 6 11/4 63/4 12 17/4 12/4	12 18 24 30 36 42 48	13½ 20 26¾ 33¼ 40 46¾ 53½ 20	14% 22 29% 36% 44 51% 58% 22 33	16 24 32 40 48 56 64 24	17% 26 34% 43% 52 60% 69% 26 39	28 37½ 46¾ 56 65½ 74¾ 28 42	30 40 50 60 70 80 30 45	32 42 ³ / ₃ 53 ³ / ₃ 64 74 ³ / ₃ 85 ³ / ₃ 32 48	45½ 56¾ 68 79½ 90¾ 34 51	48 60 72 84 96 36 54	50% 63% 76 88% 101% 38 57	53 66 80 93 106 40
2 x 4	51/3 8 103/4 133/4 16 183/4 213/4 8 12 16	6% 10 13% 16% 20 23% 26% 10 15	12 16 26 24 28 32 12	3 9: 2 14 5 18: 0 23 4 28 8 32 2 37 2 14 8 21 4 28	½ 1 1 1 3½ 2 ½ 3 3 ½ 4 1 1 2 2 3	03/3 6 11/3 663/3 12 17/3 123/3 6	12 18 24 30 36 42 48 18 27	13½ 20 26¾ 33¼ 40 46¾ 53½ 20	14% 22 29% 36% 44 51% 58% 22 33 44	16 24 32 40 48 56 64 24 36	17% 26 34% 43% 52 60% 69% 26 39 52	28 37½ 46¾ 56 65½ 74¾ 28 42 56	30 40 50 60 70 80 30 45 60	32 42% 53% 64 74% 85% 32 48 64	45½ 56¾ 68 79½ 90¾ 34 51 68	48 60 72 84 96 36 54	50% 63% 76 88% 101% 38 57 76	53 66 80 93 106 40 60
2 x 4	51/3 8 103/4 133/4 16 183/4 211/4 8 12 16 20	63/4 10 13/4 163/4 20 23/4 263/4 10 15 20 25	20 24 26 32 12 18 24	3 9: 2 14 5 18: 5 18: 0 23 4 28 32 2 37 2 14 8 21 4 28 0 35	% 1 1 1 1 2 3 3 4 4 4	03/4 6 11/5 163/4 12 17/5 123/5 6 14 12 10	12 18 24 30 36 42 48 18 27 36 45	13½ 20 26¾ 33¼ 40 46¾ 53⅓ 20 30 40 50	14% 22 29% 36% 44 51% 58% 22 33 44 55	16 24 32 40 48 56 64 24 36 48 60	17½ 26 34¾ 43½ 52 60¾ 69½ 26 39 52 65	28 37½ 46¾ 56 65⅓ 74½ 28 42 56 70	30 40 50 60 70 80 30 45 60 75	32 42 ³ / ₅ 53 ³ / ₅ 64 74 ³ / ₆ 85 ³ / ₆ 32 48 64 80	45½ 56¾ 68 79½ 90¾ 34 51 68 85	48 60 72 84 96 36 54 72 90	50% 63% 76 88% 101% 38 57 76 95	53 66 80 93 106 40 60 80
2 x 4	51/3 8 103/4 131/4 16 183/4 211/4 8 12 16 20 24	63/4 10 131/4 163/4 20 231/4 263/4 10 15 20	8 12 16 20 24 28 32 12 18	3 9: 2 14 5 18: 0 23 4 28 8 32: 2 37 2 14 8 21 4 28 0 35 6 42	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	03/3 6 11/3 663/3 12 17/3 123/3 6 14	12 18 24 30 36 42 48 18 27 36	13½ 20 26¾ 33¼ 40 46¾ 53½ 20 30 40	14% 22 29% 36% 44 51% 58% 22 33 44	16 24 32 40 48 56 64 24 36	17% 26 34% 43% 52 60% 69% 26 39 52 65 78	28 37½ 46¾ 56 65½ 74¾ 28 42 56	30 40 50 60 70 80 30 45 60	32 42% 53% 64 74% 85% 32 48 64	45½ 56¾ 68 79½ 90¾ 34 51 68	48 60 72 84 96 36 54	50% 63% 76 88% 101% 38 57 76	53 66 80 93 106 40 60 80 100 120

FRAMING

Steel Beam & Column Design

- 1	Pris.	Stress	4		-	-	41
- 1	riber	Stress	_	10	:U	w	#

BI	EAM									SPAN	IN FE	ET						
SIZE	WEIGHT	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
***	8.5	9.5	7.6	6.3	5.4	4.7	4.2	3.8										
4"	10.5	10.7	8.5	7.1	6.1	5.3	4.7	4.3										
	10.0	14.5	11.6	9.7	8.3	7.3	6.5	5.8	5.3									
5"	12.25	16.2	13.0	10.8	9.3	8.1	7.2	6.5	5.9									
	14.75	18.0	14.4	12.0	10.3	9.0	8.0	7.2	6.5									
	12.5	21.8	17.4	14.5	12.5	10.9	9.7	8.7	7.9	7.3	6.7	6.2						
6"	14.75	23.8	19.0	15.9	13.6	11.9	10.6	9.5	8.7	7.9	7.3	6.8						
	17.25	26.0	20.8	17.3	14.9	13.0	11.6	10.4	9.5	8.7	8.0	7.4						
	15.3	31.0	24.8	20.7	17.7	15.5	13.8	12.4	11.3	10.3	9.5	8.9	8.3	7.7				
7"	17.5	33.4	26.7	22.2	19.1	16.7	14.8	13.3	12.1	11.1	10.3	9.5	8.9	8.3				
	20.0	36.0	28.7	24.0	20.5	18.0	16.0	14.4	13.1	12.0	11.1	10.3	9.6	9.0				
	18.4	42.7	34.1	28.5	24.4	21.3	19.0	17.1	15.5	14.2	13.1	12.2	11.4	10.7	10.0	9.5	9.0	-
8"	20.5	45.2	36.1	30.1	25.8	22.6	20.1	18.1	16.4	15.1	13.9	12.9	12.0	11.3	10.6	10.0	9.5	1
	25.5	51.1	40.9	34.1	29.2	25.5	22.7	20.4	18.6	17.0	15.7	14.6	13.6	12.8	12.0	11.4	10.8	10
	21.8	56.6	45.3	37.7	32.3	28.3	25.2	22.6	20.6	18.9	17.4	16.2	15.1	14.2	13.3	12.6	11.9	1
9"	25.0	60.9	48.7	40.6	34.8	30.5	27.1	24.4	22.2	20.3	18.7	17.4	16.2	15.2	14.3	13.3	12.8	1:
9	30.0	67.6	54.1	45.1	38.6	33.8	30.0	27.0	24.6	22.5	20.8	19.3	18.0	16.9	15.9	15.0	14.2	1
	35.0	74.2	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.7	22.8	21.2	19.8	18.6	17.3	16.5	15.6	1
	30.0	80.1	64.1	53.4	45.8	40.1	35.6	32.0	29.1	26.7	24.6	22.9	21.4	20.0	18.8	17.8	16.9	1
10"	35.0	87.5	70.0	58.3	50.0	43.7	38.9	35.0	31.8	29.2	26.9	25.0	23.3	21.9	20.6	19.4	18.4	1
	40.0	94.8	75.8	63.2	59.2	47.4	42.1	37.9	34.5	31.6	29.2	27.1	25.3	23.7	22.3	21.1	20.0	1

The loads are given in kips, a kip being 1,000 lbs.

SAFE LOADS FOR STEEL PIPE COLUMNS IN KIPS*

NOMINAL SIZE in	DIAMETER	WEIGHT LBS.				LEI	NGTH	IN FEE	T			
INCHES	in INCHES	per FT.	5	6	7	8	9	10	11	12	13	14
2	2%	3.65	12.2	10.6	9.0	7.4	6.6	5.8	5.0	4.1	3.3	
21/2	2%	5.79	21.6	19.4	17.3	15.1	12.9	11.4	10.3	9.2	8.1	7.0
3	31/2	7.58	29.0	28.6	26.3	24.0	21.7	19.4	17.1	15.2	14.0	12.5
31/2	4	9.11	34.8	34.8	34.1	31.7	29.3	26.9	24.5	22.1	19.7	18.0
4	41/2	10.79	41.2	41.2	41.2	40.1	37.6	35.1	32.6	30.0	27.5	25.0
41/2	5	12.54	48.0	48.0	48.0	48.0	46.4	43.8	41.2	38.5	35.9	33.3
5	5%	14.62	55.9	55.9	55.9	55.9	55.9	54.2	51.5	48.7	46.0	43.
6	6%	18.97	72.5	72.5	72.5	72.5	72.5	72.5	72.5	70.2	67.3	64.3

*The loads are given in kips, a kip being 1,000 lbs.

SAFE LOADS FOR I-BEAM COLUMNS IN KIPS*

American Standard Sections

DEPTH	AREA	LBS.					LEN	IGTH II	N FEET					
INCHES	SQ. IN.	SQ. FT.	3	4	5	6	7	8	9	10	11	12	13	14
3	1.64	5.7	23.5	20.3	17.2	14.6	12.3	10.5						
4	2.21	7.7	33.0	29.1	25.3	21.8	18.7	16.1	13.9					
5	2.87	10.0	43.1	39.7	35.1	30.7	26.8	23.4	20.4	17.9				
6	3.61	12.5	54.2	52.1	46.9	41.8	37.0	32.7	28.9	25.5	22.6	20.2		
7	4.43	15.3	66.5	65.9	60.0	54.1	48.5	43.3	38.6	34.5	30.8	27.6	24.7	
8	5.34	18.4	80.1	80.1	74.9	68.3	61.8	55.7	50.1	45.0	40.5	36.5	33.0	29.
9	6.32	21.8	94.8	94.8	91.2	83.9	76.7	69.7	63.2	57.2	51.8	47.0	42.6	38.
10	7.38	25.4	110.7	110.7	109.5	101.7	93.8	86.0	78.7	71.8	65.6	59.7	54.5	48.

*The loads are given in kips, a kip being 1,000 lbs.

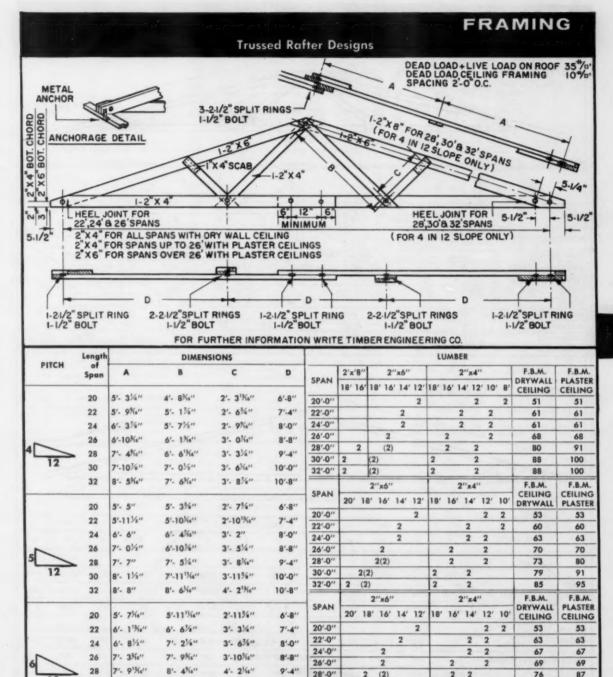
EXAMPLES:

To find correct 1-beam size:

- 1. Determine uniformly distributed load.
- 2. Locate this load figure in column under span in feet.
- Read size and weight of required beam in column at extreme left.
- To find pipe column size:
- Determine load in kips. If column is to support center of beam supported at ends divide load in half.
- 2. Locate nearest load figure in column under required length.
- 3. Read size of pipe required in column at extreme left.

To find 1-beam column size:

Follow same procedure as outlined for pipe columns.



4'- 51%4"

4'- 91/4"

3'- 3%"

3'- 71%

3'-11'%"

4'- 4"

4'- 8"

5'- 0%"

5'- 4/4

10'-0"

10'-8"

6'-8"

7'-4"

8'-0"

8'-8"

9'-4"

10'-0"

10'-8"

Note: Pieces in parentheses () are used in place of equal length 2°x4"s when plaster ceiling is used.

30'-0"

32'-0'

SPAN

20'-0"

22'-0"

24'-0"

26'-0"

28'-0"

30'-0"

32'-0" 2 (2)

2(2)

(2)

2"x6"

16' 14' 18' 16' 14' 12'

2

2

2

2

20' 18'

2 (2)

(2)

2

2

2 2

2

4

79

85

FRM

DRYWALL

CEILING

60

63

70

72

78

81

88

4

2

A

2 2

4

94

98

FRM

PLASTER

CEILING

60

63

70

72

90

98

100

12

12

8'- 45/6"

8'-11%"

5'- 9%4"

6'- 436"

6'-11%"

7'- 63%"

8'- 114"

8'- 8%4"

9'- 316"

30

32

20

22

24

26

30

32

8'-1134"

9'- 6136"

6'- 8%"

7'- 414"

8'- 0%4"

8'- 8%"

9'- 436"

10'- 01/4"

10'- 8%"

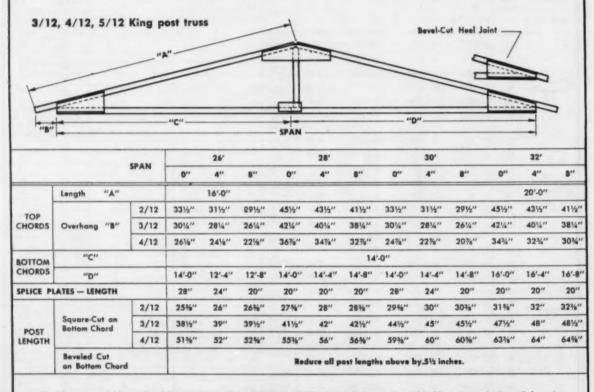
DIMENSION "A"

FRAMING Typical glue-nail truss specifications 3/12 W-truss UNCUT LENGTH SPAN CUTTING SCHEDULE 24' 26' 28 SPAN Att Off Ber Att R' Bei 411 Uncut Length Member "C" 12'-0" 14'-0" BOTTOM CHORDS 12'-0" 12'-4" 12'-8" 14'-0" 12'-4" 12'-8' 14'-0" 14'-4" 14'-8" TOP CHORDS Cut Top Chords Only If Less Overhang Than That Listed in Item "O" Is Desired. SHORT DIAGONAL "D" 22' 23" 24" 25" 27" LONG DIAGONAL Use Material Left After Cutting Short Diagonals BOTTOM-CHORD SPLICE PLATES Two Pieces 1" x 4" x 24" SCABS Two Pieces 1" x 4" x 8"; One Piece 1" x 4" x 16" **HEIGHT** (Inside Dimension) 36" 361/2 37" 391/4" 40" 42" 43" EXTENSION 431/4" 411/2" 39%" 3114" 2916" 27" 42% 3834" 4034" OVERHANG "0" 4214" 4014" 3814" 3014" 2814" 2614" 411/2" 391/4" 371/2"

7'-8"

8'-0"

8'-4"



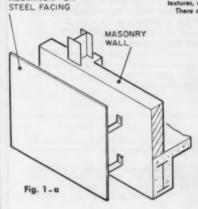
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91.011

Curtain Wall Systems

In many commercial and industrial buildings the steel framework is the structural or main support of the building, while the "curtain walf" is a nenstructural covering, consisting of glass and many types of lightweight insulating panels of various textures, colors, and patterns.

There are three basic curtain wall systems in common use:

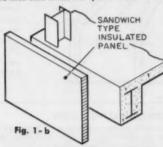


FACING TYPE CURTAIN WALL

In this type of wall (See Fig. 1-a) the skeletan steel framework is filled in with a lightweight masonry material such as cinder black or hollow day tile. However, the material used must comply with the local hourly fire rated cades and provide the necessary thereal insulation.

A skin of aluminum, stainless steel or other n

ALUMINUM OR



PREFABRICATED INSULATED TYPE CURTAIN WALL

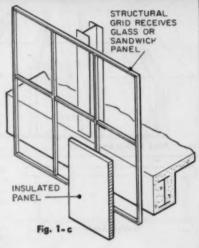
This type of curtain wall consists of panels made up of a synthetic insulating material sandwiched between an exterior and interior finished facing material (Fig. 1-b).

rial (Fig. 1-b).

External facings may be of stainless steel sheet, aluminum sheet or extruded duminum shapes, abbstos cement, plywood and other exterior weather resistant materials. The inside face of the panel may be finished with aluminum, steel sheets, plywood, or compressed composition materials, with a painted surface if so desired.

A number of sandwich panels with their heat transmission coefficient "U" factors are shown in Fig. 2.

These sandwich panels may be as thin as 1½ without requiring additional back-up material. The panels are fastened to the steel framework of the building and are quickly installed" is convenit sizes. They are lightweight and have good insulating qualities despite their thinness.



WINDOW WALL OR GRID TYPE CURTAIN WALL

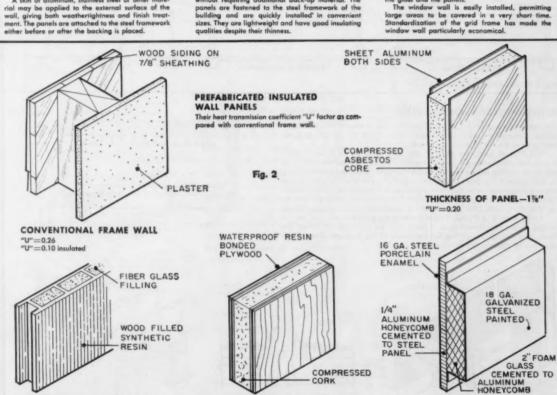
CURTAIN WALL

In this system of curtain wall the external bay of the building is covered with a structural grid framework of aluminum extrusions or steel frame (Fig. 1-c). The grid may be filled in with glass ar insulated panels of many patterns and colors. To insure weathertightness, calking compounds or gaskets are used around the glass and the panels.

The window wall is easily installed, permitting large areas to be covered in a very short time. Standardization of the grid frame has made the window wall particularly economical.

THICKNESS OF PANEL-21/2"

"U"=0.15



THICKNESS OF PANEL-1%"

"U"=0.26

THICKNESS OF PANEL-1%"

"U"=0.47 unfilled "U"=0.34 filled



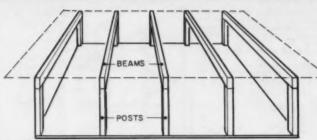


Fig. 1 POST-AND-BEAM SYSTEM

POST-AND-BEAM CONSTRUCTION

The principal variation from conventional framing methods is the post-and-beam system, in which roof loads are concentrated on beams supported by posts, rather than continuously on the walls. (See Fig. 1) Spacing of the posts is determined by the strength of the beam that spans between them.

This method of construction gives complete flexibility. The roof structure can be of such materials as wood joists, planks, laminated wood strips, arches, and composition panels.

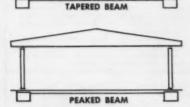
GLUED-LAMINATED LUMBER

This type of lumber results from the joining of two or more pieces of lumber by glueing. The lumber is generally of 1" or 2" material, glued together to form beams (Fig. 2) arches, columns, and many other structural members.

Advantages: the member is one-third stronger than a sawn member of equal size, giving more slenderness in design without sacrificing strength. Tests show that the glued joints are stronger than wood, and that time does not affect the adhesive qualities of the glue. Also, laminated lumber permits larger pieces of lumber in both cross-section and length than is possible in single pieces.

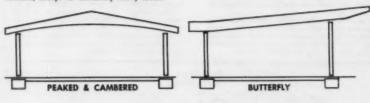


Since laminated beams and purlins are manufactuerd by machine, and are planed and sanded to show the natural grain of the wood, they require no plastering, painting or other decorative treatment. They are economically practical when used as a finished product and exposed as part of the architectural treatment. When used merely as structural units they are generally more expensive than steel. For spans up to 30°, solid timbers are usually cheaper than laminated sections, except for extremely heavy loads.



SIMPLE BEAM

Fig. 2 GLUE-LAMINATED BEAMS



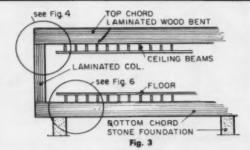
CONTEMPORARY FRAMING DETAILS

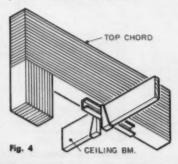
The contemporary framing in Fig. 3 employs five laminated wood bents in hollow rectangular shape, set 16' apart, from which the roof plane hangs and upon which the floor structure rests.

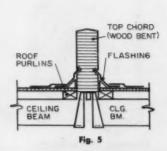
The 9" thick bents rise 16' and span 50'. They rest on a native stone foundation, cantilevering 8' over it on either side. Top and bottom chords are 30" deep. Ceiling beams are suspended from the laminated beams (Fig. 4) by joist hangers. The joist hangers are supported by a 3" x 1%" channel iron running lengthwise under each laminated beam. The channel iron is fastened by bolts running through the entire beam. The wood bents have 45" sawcuts running along both sides of the chord to receive the roof flashing (Fig. 5).

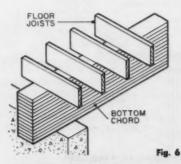
Roof purlins, 3" x 3", run at right angles to the ceiling beams and provide

Roof purlins, 3" x 3", run at right angles to the ceiling beams and provide nailing for the roof sheathing on a plane with the bottom of the chard. The floor joists (Fig. 6) rest on the bottom chards of the laminated beams and soon the 16' distance between bents.



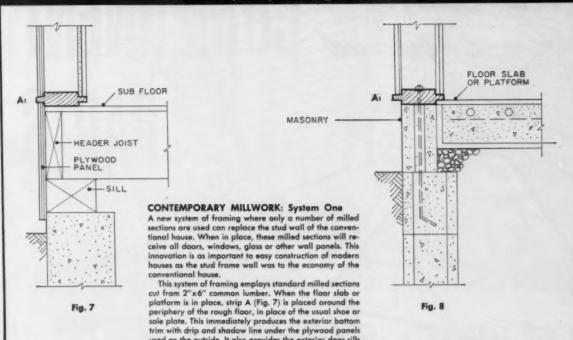






112

Contemporary Framing Methods



used on the outside. It also provides the exterior door sills and, at the same time, the interior baseboards that will project above the finished floor. Fig. 8 shows how strip A

is used on masonry construction.

A1

FIXED

GLASS

A2

EXTERIOR

DOOR

SCREEN

B1

EXT. DOOR

EXT. DOOR

EXT. DOOR

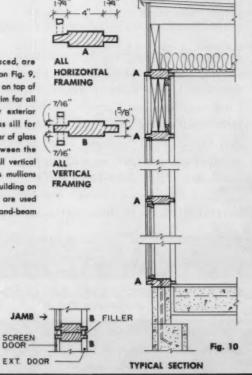
FILLER

B1

Fig. 9

SECTION SHOWING EXTERIOR DOOR

Vertical 4 x 4s, widely spaced, are capped by another strip A on Fig. 9, 10. These are nailed directly on top of the posts, but act as head trim for all doors, windows, interior or exterior wall finishes, and again as sill for strips either of wood fascia or of glass inserted in the spaces between the ends of the roof beams. All vertical members B, B1, B2 serve as mullions and post casings since the building on which these milled sections are used are ideally suited to post-and-beam construction.



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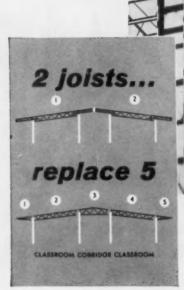
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Cost saving was a pre-eminent factor in architect William B. Ittner's design of this low-flung structure, with its long straight runs, free of costly jogs and bends. Further economy was achieved by allowing the rolling terrain to fall away from the single continuous ridgeline, rather than to follow the contours of the ground with multi-level roofs.

This design concept was based on the selection of open web steel joists as a versatile, economical structural material. Laclede 34' joists, with special shallow-depth ends, were used to provide an unbroken slope from ridgeline to cantilevered overhang, two joists replacing the five structural elements formerly required in this type of roof construction.









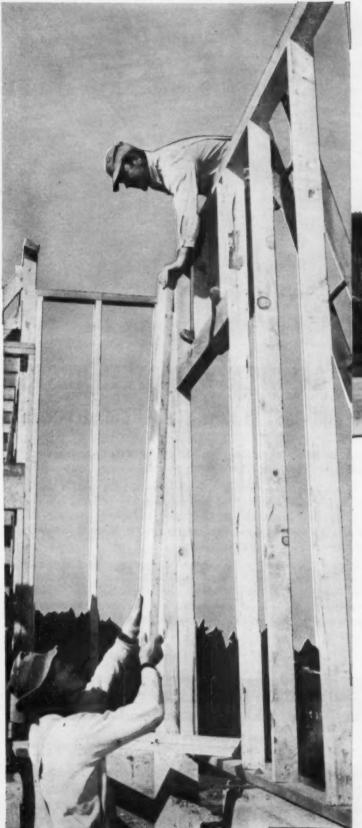
General contractor on the project was Kloster Company. Neal J. Campbell was consulting engineer.

6070

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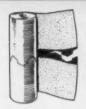
ROOFING, SIDING, INSULATION, SHEATHING

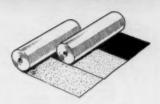
Asphalt Roofing Guide











ASPHALT	
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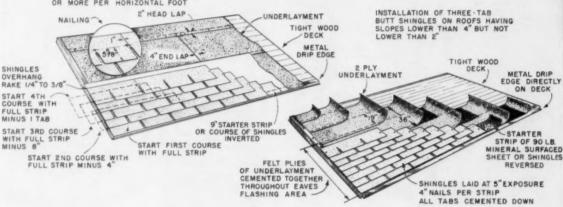
SMOOTH

I PATTERN

1 19" SELVAGE

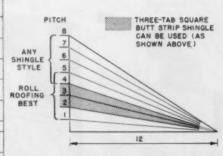
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1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-	2	3	4	5	1		2	1 :	5	4	5
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22'	36"	4"	2"	34"	36'	36"	6"	3"	33"	36	36"	4"	2"	34"	48'	32"		2"	14"	36	1	36"		1	19"	17"
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INSTALLATION OF THREE-TAB BUTT SHINGLES ON ROOFS OF 4" RISE OR MORE PER HORIZONTAL FOOT



	SHINGLES		NAILS	LENGTH	LBS. PER SQ	
	SQUARE	PER	SQUARE	OF(*) NAIL	12 GA. BY 7/16" HEAD	BY 7/16"HEAD
ROLL ROOFING ON NEW DECK			252	l _{st}	.73	1.12
ROLL ROOFING OVER OLD ROOFING			252	134"	1.13	1.78
19" SELVAGE OVER OLD SHINGLES			181	13,4"	.83	1.07
3-TAB SQUARE BUTT NEW	80	6	504	1545	1.83	2.32
3-TAB SQUARE BUTT REROOFING	80	6	504	13,4"	2.38	3.01
HEX STRIP NEW	86	4	361	11/4"	1.28	1.68
HEX STRIP REROOFING	86	4	361	134"	1.65	2.03
GIANT AMERICAN	226	2	479	1 1/4"	1.79	2.27
GIANT DUTCH LAP	1113	2	236	134"	1.07	1.39
INDIVIDUAL HEX	82	2	172	13/4"	.79	1.03

LENGTH OF NAIL SHOULD ALWAYS BE SUFFICIENT TO PENETRATE AT LEAST 3/4" INTO SOUND WOOD DECK LUMBER. NAILS SHOULD SHOW LITTLE, IF ANY, BELOW UNDERSIDE OF DECK LUMBER.



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COURTESY OF THE ASPHALT ROOFING INDUSTRY BUREAU

ROOFING, SIDING, INSULATION, SHEATHING **Red Cedar Shingles** ON ROOPS FLATTER THAN MALE PITCH, VALLEY SHEETS STEEPER, VALLEY SHEETS SHOULD EXTEND AT LEAST 10" FROM VALLEY CENTER 7" FROM VALLEY CENTER ZSPACED OR SOLID WOOD SHEATHING SPACED SHEATHING SHOULD BE 1"x3", 1"x4", OR 1"x6" 1/4" MIN. TWO NAILS FOR EACH SHINGLE FOR QUARTER PITCH AND STEEPER USE 3", 5\\\", 7\\\" FOR 1\(\)", 1\\", 2\(\)" FOR 1\(\)", 1\(\)", 2\(\)" SHNOLES RESPECTIVELY. FOR FLATTER PITCHES USE 3\(\)", 4\\", 5\\\\" EXPOSURES ALTERNATE COURSE JOINTS SHOULD NOT FIRST COURSE DOUBLE OR TRIPLED WALL SHEATHING WOOD GUTTER CORNICE AND GABLE VALLEY CHOOSE SHINGLES ALTERNATE OVERLAP DOUBLE STARTER COURSE STARTER COURSE RIDGE ROOFS STUDS WOOD SHEATHING WALLS

ROOFING, SIDING, INSULATION, SHEATHING Insulation Guide BETWEEN RAFTERS BETWEEN BRIDGING ALLOW AIR SPACE FOR FREE AIR CIRCULATION BETW INSUL. BSHEATHING RAFTERS VENTILATE AT VAPOR BARRIER DOWN ADJ INSUL BE FITTED SIMILARLY MAKE DIAG CUT TO FIT INSUL. ABOVE AND BELOW BRIDGING RCULATION IN FLAT ROOFS BETWEEN CEILING JOISTS CONT. INSECT FURRING VAPOR BARRIER VAPOR BARRIER MUST ALWAYS FACE HEATED AREAS VAPOR BARRIER DOWN VENTILATE EITHER VAPOR PERMEABLE ASPM.FELT, WOOD STRIPS OR LACING WIRE, TO HOLD INSUL. AGAINST FLOORING INSTALL FURRING AND SCREEN AS SHOWN IF FREE AIR CIRCULATION PARALLEL TO RAFTERS CANNOT BE PROVIDED IN CRAWL SPACES IN WALLS VAPOR BARRIER FASTEN FLANGES TO STUDS WIRE MES TO SUPPORT TO JOISTS ALTERNATIVES: LACE BAILING WIRE BETW. JOISTS SECURED WITH STAPLES, OR ARCH. II GAUGE WIRE BETWEEN JOISTS USE 6" BATTS WHERE RAFTERS ARE 2"x 8" OR MORE, PARTICULARLY IN AIR CONDITIONED HOUSES VAPOR BARRIER TOWARDS INTERIOR COURTESY: NATIONAL MINERAL WOOL ASSOCIATION AROUND PIPES ALWAYS USE THE 6-3-2 RULE: BLANKET SIZES 6" BATTS AS BLANKETS BETWEEN 1 15" WIDTHS BETWEEN STUDS OR JOISTS - 16"O.C. RAFTERS OR JOISTS, 3" BATTS BETWEEN STUDS AND 2"BATTS BELOW FLOORS 19" WIDTHS BETWEEN STUDS OR JOISTS -20"O.C. SLICE INSULATION IN HALF, WEDGE HALF BEHIND PIPES, OTHER HALF IN FRONT AND SECURE 23" WIDTHS BETWEEN STUDS OR JOISTS - 24"O.C. NAILING 6"MAXIMUM SPACING WEDGE INSUL. A BEHIND WATER PIPES BLOWN INSULATION VENT TUBES ALT FOR BLOWN INSUL, APPLY BOARD TO INT FACE OF RAFTERS FROM CEIL. LINE UP 12 "TO KEEP EAVE VENTS CLEAR AIR VAPOR PERMEABLE KNEE WALL REFLECTIVE INSULATION FIBER OR ASB. SEPARATORS MIN. 3/4" & EQ. TYPE B FIBER LINER TYPE A TYPE B THIN COAT OF ALUM BONDED ALUMINUM FOIL - ALUMINUM FOIL VAPOR BARRIER

AVAILABLE IN 12", 16"8 24"

HEAVY WEIGHT FOIL IN

WIDTHS

OR BOTH SIDES

ALUM IS ASPHALT LAMINATED

TO HEAVY CRAFT PAPER ONE

TYPE A USED ALONE OR WITH TYPE B, SPACE EQ. DIVIDED 25", 33", 36" WIDTHS

ECONOMICAL FOR WALL & CRAWL SPACES

16'8 24" WIDTHS

ALUMINUM FOIL

12",16",20" AND 24" WIDTHS

2 SIDES OF KRAFT PAPER

ROOFING, SIDING, INSULATION, SHEATHING Sheathing Standards

		-
WALL	SHEA	THING

			W	ALL SHEATH	IING		
Product	Sizes	Recom- mended Thicknesses	Maximum Stud Spacing (O.C.)	Nail Size and Type	Nuil Spacing (Panel Edge)	Nail Spacing (Inter- mediate)	Notes
	4'x8'	%4" ·	16"	6d Common	6"	12"	
Fir	4'x8'	3/4"-1/2"	24"	6d Common	6"	12"	Apply with face grain perpendicular to studs.
,	4'x8'	5/6"	24"	8d Common	6"	12"	. 10 31903.
Fiberboard	4'x8'-4'x9'	23/22/1	16" or 24"	134" 12 ga. Galvanized Rfg. Nails 34" head	3"	6"	Drive nails until head is flush with
(Vertical Application)	4'x8'-4'x9' 4'x10'-4'x12'	1/11	16"	1½" 12 ga. Galvanized Rfg. Nails ¾" head	3"	6"	sheathing surface.
Fiberboard (Horizontal	2'x8'	23/2211	16"	1¾" 12 ga. Galvanized Rfg. Nails ¾" head	41/2"	8"	Stagger end joints in successive
Application)	2'x8'	1/2"	16"	1½" 12 ga. Galvanized Rfg. Nails ¾" head	41/2"	8"	COUTEST.
Gypsum Board (Horizontal Only)	2'x8'	<i>N</i> ¹¹	16"	134" 11 ga. Galvanized Rfg. Nails %" head	4"	8"	
Wood (Diagonal	V	16"	8d Common	2 Nails at all	Bearings	Joints in adjacent boards separated	
or Horizontal Application)	Above	1"x8"	16"	8d Common	3 Nails at al	Bearings	by 2 stud spaces.

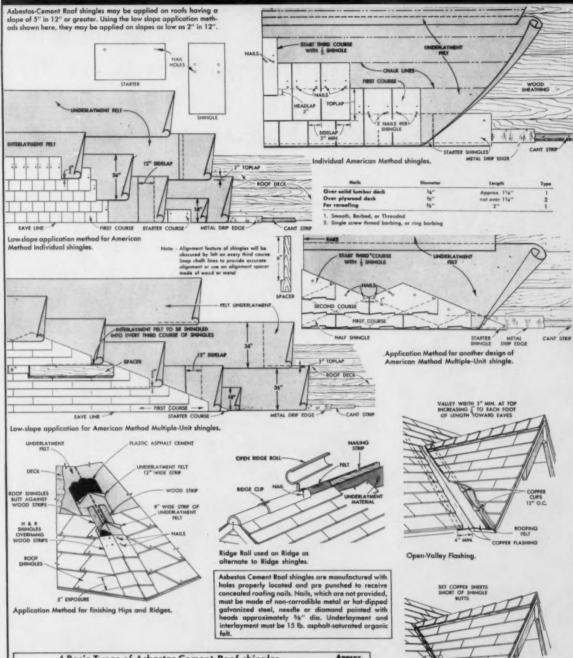
STAPLE APPLICATION SPECIFICATIONS

		51	APLE APP	LICATION	PECIFICAT	IONS				
Product	Thickness of Fiberboard	Maximum Stud Spacing	Gauge of Staple	Minimum Crown of Staple	Minimum Length of Staple	Spacing at Edge of Sheet	Spacing at Inter- mediate Members	Notes		
Fiberboard	1/2"	16"	16	3/16"	1%"	4"	6"			
Wall - Sheathing	1/2"	16"	14	K4"	1%"	4"	8′′			
(with Diagonal	25/22**	24"	16	364"	11/4"	4"	6"			
Bracing)	23/22"	24"	14	364"	11/4"	4"	8"			
	1/2"	16"	16	26"	1%"	3"	6"	'' Fiberboard sha be special dense typ Unless engineerin		
Fiberboard Wall Sheathing	1/2"	16"	14	3/6"	11/2"	4"	8"	analysis of rackin resistance is submi ted for FHA determ nation, each wa		
Sheathing (without Diagonal Bracing)	25/52**	23/32**	23/52**	16"	16	%6"°	11/2"	3"	6"	shall contain at lea one eight foot of three four foot wa sections without ope
	25/22**	16"	14	1/4"	11/4"	4"	8"	 ings. Panel must be naile around entire pe imeter. 		
Product	Thickness	Maximum Stud or Joist Spacing	Minimum Gauge of Staple	Minimum Crown of Staple	Minimum Length of Staple	Maximum Spacing of Staples on Framing Members		Notes		
	3/4"	16"	16	760	7/4"	5"				
Gypsum Lath	1/2"	16"	16	360	1"	5"	with the cros	Lath, staples shall be drive wn parallel to the long o		
Lam	1/2"	24"	16	7/4"	1"	4"	not less than	4 staples per 16" width		
Gypsum Wall Sheathing	Уч"	16"	16	76°	11/4"	6"	than 5" o.c., crown bears	ning member and not mo in such a manner that to tightly against the lath b i into the face paper. T		
with diagonal Bracing)	1/2"	24"	16	1/400	11/2"	6"	legs of the s	taples shall be no less the		
Bracing) First Ply Only of Two-Ply Sys- tem Gypsum	3/6**	16"	16	%6°°	1"	5" on ceilings 6" on walls	lath. For G less than 5 sheathing pe more than	ypsum Wall Sheathing: staples per 24" width or framing member and of 5" o.c., and for First P re than 5" o.c. on ceilin		
Dry-Wall	3/4"	24"	16	%s**	1%"	5" on ceilings 6" on walls	and 6" o.c. o	re than 5" o.c. on ceiling on sidewalls.		

First Ply Only of Two-Ply Sys-tem Gypsum Dry-Wall Interior Finish

ROOFING, SIDING, INSULATION, SHEATHING

Asbestos Cement Roofing Guide



4 Basic Ty	pes of Asb	estos Ceme	nt Roof shir	ngles	Approx. Shipping
Туре	Width	Height	Thickness	Exposure	wt.
American Method Individual Unit	8"	16"	%" %" %"	7"	350 lbs. 585 lbs.
	9"	18"	1/4"	8"	570 lbs
American Method Multiple Unit	24" to 30"	14" to 15%"	%" %"	6" to 6%"	300 lbs 440 lbs
Dutch Lap	16"	16"	%"	12" x 13"	265 lbs
Ranch Design	24"	12"	34"	20" x 9"	255 lbs



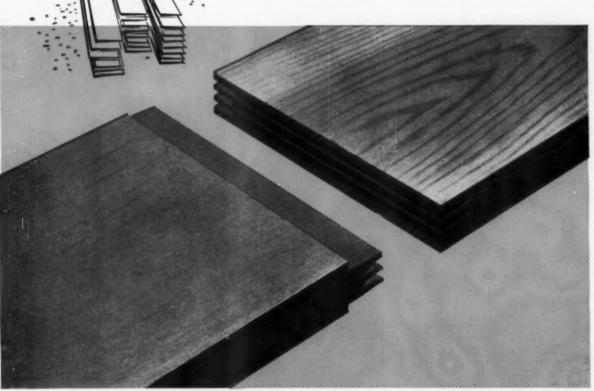
Closed-Valley Flashing.

Courtesy: Ashestes Cement Products Assesiation



now...PALCO-LOC...tailor-made lumber in custom lengths to fit builder requirements, exactly.

Our finest Architectural Quality, certified kilndried redwood – finger-jointed and electronically
glued to produce permanently strong, long
pieces – for exterior or interior use. All specified,
or any combination of lengths, at no extra cost!
Available in boards or worked patterns...
also factory paint-primed if desired. Buy PALCO
— standard of comparison since 1869.



THE PACIFIC LUMBER COMPANY

100 Bush Street, San Francisco 4, California 35 East Wacker Drive, Chicago 1, Illinois 2185 Huntington Drive, San Marino 9, California





The <u>ladies</u> buy the homes you build!

Make your homes <u>instantly</u> wanted ... "clothe" them in the natural beauty and warmth of genuine wood siding!

Whether for her person or her home, the discerning lady desires a wardrobe that is functional...practical...fashionable...handsome... and above all *genuine*. Just as with fine furs, homes "clothed" in genuine wood instinctively appeal to her! And for the very best, demand Weyerhaeuser 4-SQUARE... the most dependable name in wood.



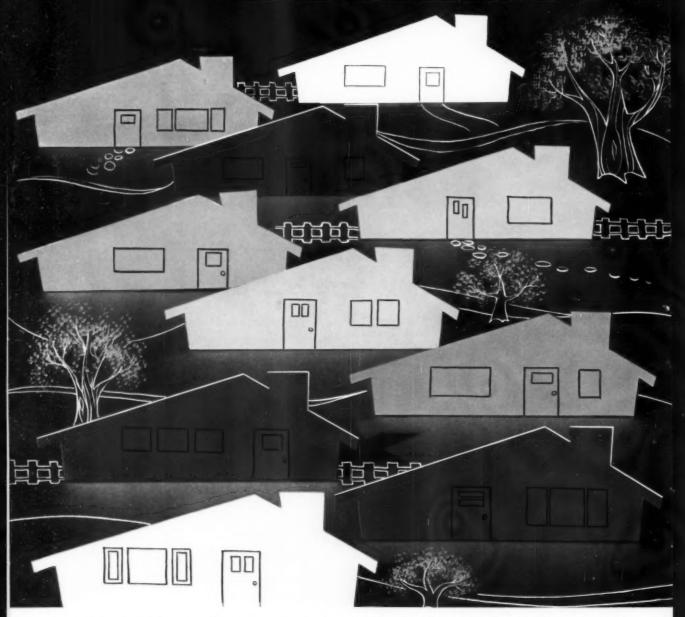


FREE COLORFUL "HOME FASHIONS" BOOK

helps you sell your homes "clothed" in genuine Weyerhaeuser 4-SQUARE siding. Include in your model homes. Handy request form speeds it to you. Write Weyerhaeuser Company, Trade Promotion Department, Tacoma 1, Wash.

Firm	
Address	
City	Zone State

MORE COLORS for builders LESS CARE for buyers...



Dover White • Sheffield Gray • Coffee Brown • Jade Green • Soft Coral • Turquoise • Desert Tan • Charcoal Gray • Mayfair Green • Jonquil Yellow



UNITED STATES GYPSUM

the greatest name in building

REGENCY NEW PLASTIC-SURFACED SIDING FROM U.S.G.

10 DISTINCTIVE COLORS!

BAKED ON PLASTIC FINISH

LASTS FOR YEARS... EASY UPKEEP

PUTS EVERY BUYER ON "EASY STREET"

New Regency plastic-surfaced siding brings big news to builders with...color! Regency is available in 10 distinctively different shades. With its wide range of color, Regency can make exteriors of homes having the same basic floor plan look dramatically different. With its subtle shake texture, it blends beautifully with any other exterior material you choose.

There's big news for homeowners, too, because Regency's plastic surface needs less care, and lasts for years and years. This carefree feature means you can sell more Regency-sided homes by offering modern "Easy Street" living . . . through less upkeep. Made of an asbestos cement base, Regency is fireproof, wind and weather resistant.

U.S.G. has prepared a builder merchandising program to help you sell "Easy Street" living, and to realize the full potential and profit of REGENCY. Read about it below . . . then mail the coupon today.



NEW

EASY STREET

SALES PROGRAM MEANS EASY SELLING FOR YOU

To help you build better and sell faster, U.S.G. has prepared this builder sales program. It's designed especially for you. Send for full information today.

- STYLE WITH SIDING—an architect's sketchbook of design ideas by
 L. Morgan Yost. Shows and tells how
 you can use REGENCY with a variety
 of architectural styles and exterior
 materials. Included are sketches, tips
 for application, facts on how REGENCY
 helps builders and pleases buyers.
- PERSONALIZED BUILDER LITERATURE.
- MODEL HOME MERCHANDISING CENTER.

United States Gypsum, Dept. AB-11 300 W. Adams St., Chicago 6, Ill.

Please have the U.S.G. salesman call with my personal copy of the "STYLE WITH SIDING" Sketchbook and full information on REGENCY Siding and the new "Easy Street" merchandising program for builders.

Name

Address

City____Zone__State____



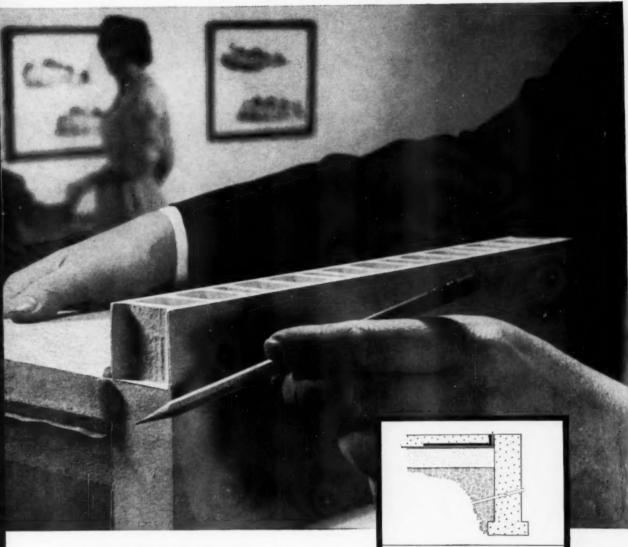
SCORBORD® AND POLYFILM®

Build comfort into your slab floors with positive permanent insulation against cold and ground moisture. SCORBORD and POLYFILM are quick and easy to lay . . . give you "plus" benefits to sell.

Homes and buildings are easier to sell...and "most wanted"... when you build in permanently warm, dry slab floors. Scorbord and Polyfilm stop heat loss and moisture entry through foundations and floors, regardless of temperature conditions outside. These Dow Building Products are easy and economical to install. The result: more comfortable buildings, lower heating costs, *more* satisfied buyers.

SCORBORD (Patent applied for) perimeter insulation. To install, simply snap off the prescored width you want and lay it without adhesive against the foundation and on the fill. It is excellent for both heated and unheated slabs and for crawl spaces.

POLYFILM polyethylene film. Forms a permanent ground-moisture barrier. Lay Polyfilm on the fill and place concrete directly over it. In crawl spaces, use it to cover all exposed ground. And for flashing around door openings and window framing, staple strips of Polyfilm around the openings before installing frames.



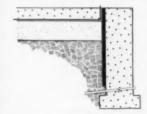
keep slab floors warm and dry

OTHER DOW BUILDING PRODUCTS

STYROFOAM® insulation board for insulating cavity walls and as an insulating base for plaster and wall-board with masonry walls. Low "K" factor and high moisture resistance.

SARALOY® 400 flexible sheet flashing. Installs easily without complicated pre-fabrication. For information on these and other Dow Building Products, write THE DOW CHEMICAL COMPANY, Midland, Mich., Plastics Sales Dept. 1512D4.

Scorbord for insulating perimeters can be used horizontally and vertically (above) or vertically only (below).



Scorbord interrupts the passage of heat from slab to foundation, helps prevent condensation around slab perimeter.

THE DOW CHEMICAL COMPANY



Midland, Michigan

How to make a lasting

offer exteriors that stay



This ad, in current issues of Better Homes & Gardens, American Home, Sunset and Living, emphasizes the joy of owning a home sided with durable, beautiful Masonite exterior products.



MASON

impression out of a first glance

beautiful for a generation and longer!

First glances turn "lookers" into interested prospects when the exteriors of your homes are *genuine* Masonite hardboard sidings.

The Sunline siding that forms the continuous patio and interior wall, for example, won't split or check...is exceptionally dent-resistant. Raised vertical ribs, an integral part of the siding itself, are rounded and smooth...offer unique sun-and-shadow effects.

Sunline saves labor cost, too. Handy 4' x 8' to 4' x 16' panels install quickly. Edges are shiplapped for fast application—uninterrupted design. Best of all, the beauty lasts and lasts—no annoying call-backs!

Investigate the wide range of vertical and horizontal Masonite sidings. Look into all Masonite exterior panels.

Hammer test leaves no doubts—Masonite sidings can take it! Can you imagine how most sidings would look after repeated blows with a hammer? Masonite hardboard comes through the pounding undaunted.



Masonite exteriors come through the hammer test undaunted.



Masonite Panelgroove—offers vertical grooves every 4", 8" or at random.



Zone County ..

Masonite "X" siding-provides a deep 1/2" shadowline-factory-primed.

Always build with paneling that features this trade-mark. It says this is genuine Masonite hardboard. It's wood-made-better!—made with the "exclusive explosion process" for unequaled strength, smoothness and weatherability.

shows the way!

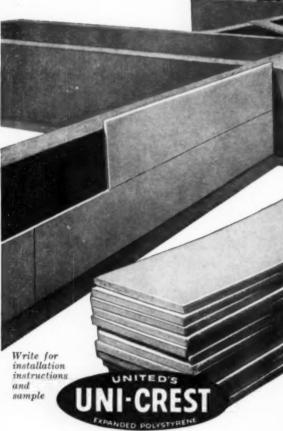
Look in the Yellow Pages for your nearest Masonite dealer. And for a colorful booklet on Masonite exteriors, send the coupon. MASONITE CORPORATION
Box 777
Chicago 90, Illinois
Please send me your booklet on Masonite exteriors and information on new "X" siding.

Name
Company
Address
City
State

new

UNI-CREST insulation

Now, through the combination of modern chemistry and the experience of United's 50 years as a leading manufacturer of insulating material, comes Uni-Crest. A thoroughly proven foam plastic insulation of outstanding thermal properties . . . labor saving and cost cutting benefits. Highly recommended for walls, ceilings, floors and around foundations or under slabs. Readily adheres to masonry, eliminates furring or lathing, provides an excellent surface for plaster, cement or other finishes. Easy to work with, light, non-dusting, odorless, nontoxic, can be cut with all stand-ard tools. Will not shrink or rot and retains its insulating value indefinitely. Regular and self-extinguishing available in a variety of sizes.



Uni-Crest Division

UNITED CORK COMPANIES

25 Central Avenue, Kearny, New Jersey

OFFICES OR DISTRIBUTORS IN KEY CITIES COAST TO COAST.

BRAND NAMES DIRECTORY

(Continued from page 102)

LEVELEASY Hydrolevel LEVELER Colson Corp LEVELINE Calder Mfg Co LEVELITE-LATEX Sciby Battersby & Co LEVERLIFT Colson Corp LEX-CRETE Rutland Fire Clay
LEXINGTON Miller Co LIBERTY Tilley John S Ladders Co Inc LIDO Carey-McFall Co LIFE BOND Horner Flooring LIFETIME Miller Howard Clock Co LIFETIME Mirro Chrome Co LIFT-A-SHELF Acme Appliance Mfg
LIFTAMATIC Sasgen Derrick
LIGHTSTEEL Penn Metal Co
LIMPET Keasbey & Mattison
LINE-O-LAMPS Wiremold Co LINK American Sta-Dri Co LION-BOND Cambridge Tile Mfg Co LION MITER MASTER Pootatuck Corporation LION UNIVERSAL TRIMMER Pootatuck Corporation LIQUID ALUMINUM Chicago Bronze & Color Works
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LOS RANCHOS Midland Brick & Tile Co LOUVER-DOR Berkeley Aluminum Products LOUVER-GLASS Kirlin Co LOXCREEN Loxscreen Co Inc LOXFRAME Loxscreen Co Inc LOXON Sherwin-Williams Co LOXTRIM Loxcreen Co Inc LOZENGE ANTIQUE Mondial United Corp LUBRI-TASCON Cabot Samuel LUMASKIN Ludlow Papers Div of Ludlow Corp

LUMINALL National Chemical

LUPTON Flynn Michael Mfg LUSTARITE Mobile Paint Mfg LUSTERLITE Insulite Div LUSTERTONE Elkay Mfg Co

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LUSTR-O-LITE Lustro Tile Mfg Co LUSTRA GRAY American-Saint Gobain Corp. LUSTRACRYSTAL American-LUSTRACRYSTAL American-saint Gobain Corp LUSTRAGLASS American-saint Gobain Corp LUSTRAVIEW Miami Cabinet Div Philip Carey Mfg LUSTRAWHITE American-saint Gobain Corp LUSTRE TONE O'Brien Corp LUSTRE-UP O'Brien Corp LUSTRO-WARE Columbus Plastic Products Inc LUX-RIGHT Saint Paul Corrugating Co
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M-26 Kaiser Aluminum &
Chemical Corp
MACO-CRAFT Maco Corp
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MARLITE CELESTIAL Marsh

(Continued on page 160)

Shakolor is an exclusive

Shakertown finish scientifically formulated



to DOUBLE color life...

minimize re-staining...

increase weather resistance of

Shakertown cedar shake

GLUMAC

panels!





Thoroughly field tested under all climatic conditions... Shakolor

is factory applied in 12 striking colors to all **GLUMAC** panels





SHINGLES OF SMAKES

...NOW AVAILABLE AT
BUILDING MATERIALS
DEALERS EVERYWHERE

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CORPORATION
Dept. AB-41

Dept. AB-41 20310 Chagrin Blvd. Cleveland 22, Ohio Please send me complete information about Glumac Panels and name of nearest dealer.

NAME
COMPANY
STREET

CITY____ZONE__STATE____

Q. What's the newest name in gypsum products?

A. The <u>oldest</u> name in building materials!

Next time you buy gypsum products, you'll see a new name — Johns-Manville Gypsum Products. We believe it'll pay you to give them a try. For we've been serving American builders with top-quality building materials for over a century. Get all the facts from your J-M representative this week. Or write Johns-Manville, Dept. AB461, Box 14, New York 16, N. Y.



Quality does cost more... but quality sells houses!

As a builder, you know better than anyone in the building industry that visible quality sells houses faster. Naturally, quality costs more... but the sales appeal of quality is unmistakably a good investment for you.

For example, a Follansbee Terne roof may be more expensive than the roofing you are now using. But look at the sales appeal of a Terne roof!

A Terne roof will last longer than a lifetime

A Terne roof is colorful—and the owner can change its color any time he wishes

A Terne roof is distinctive—Terne can be applied in many different designs . . . in batten, standing or bermuda seams (like the roof pictured below.)

In other words, Follansbee Terne is quality in roofing. A Terne roof is sales appeal —on the outside of the house, where prospects see it and are drawn to it.

We would be happy to send you additional information about Follansbee Terne.



Architects: Martin & Jelliffe, AIA, Indianapolis, Indiana Builder: A. Frank Woods, Lafayette, Indiana Roofer: Rush Metal Products, Inc., Lafayette, Indiana





File this under your hat...

Whatever the job ... residential, commercial, industrial or farm ... be sure to specify Noyo brand Redwood by Union. Noyo gives you the quality, the service and the widest choice. Right now, for instance,

there are 32 different Noyo products available. And as Union's modern research labs develop new forest products, the Noyo family will grow even bigger.

UNION LUMBER COMPANY



REDWOOD Tree Farmers & Manufacturers
Mills: Fort Bragg, Leggett and Willits, California
Sales Offices: San Francisco • Los Angeles • Chicago • New York



Member: California Redwood Association REPORT ON ASTM ACCELERATED AGING TEST #D-1037-56T:

NO CRACKING · SPLITTING ·



fastener eliminates face nailing!



NOW YOU SEE IT! Hidden fastener in place <u>before</u> overlapping panel is applied.



Fastener cannot be seen <u>after</u> overlapping panel is applied.

of **Upson Primed Siding** in a LIFETIME* of outdoor exposure!

and completely practical lap siding! And you can't buy a more economical siding, either. Upson Primed Siding is cut to uniform size-12" wide by 12' long. These precision dimensions permit exact layout. Edges are uniformly true and straight, too. Surface guaranteed knot free. No grain to raise or hide. Both surfaces and edges are primed for longer life. One side gray, one white . . . and this paint will positively not peel! Upson Primed Siding is waterproofed throughout. And the hidden aluminum fasteners (see illustration, left) not only eliminate face nailing and improve appearance, but provide automatic venting that prevents moisture traps behind siding.

Our technical staff will gladly consult with you on your requirements. Phone, wire or write. The Upson Company, Upson Point, Lockport, New York.

Here's the most durable, neatest looking and completely practical lap siding! And you can't buy a more economical siding, either. Upson Primed Siding is cut to uniform size—12" wide by 12' long. These



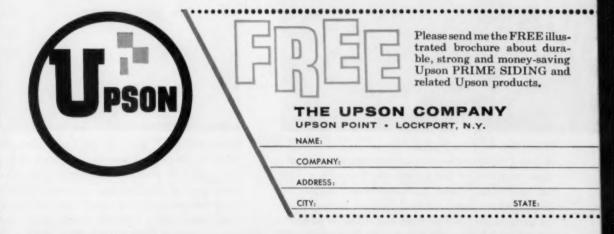
Soaked in water Sprayed with steam Freezing :
1. One hour at 2. Three hours 3. Twent

2. Three hours at 200°F. 3. Twenty hours at 10°F.

5. (Repeat of 6. Eight

4. Three hours at 210°F.

6. Eighteen hours at 210°F.

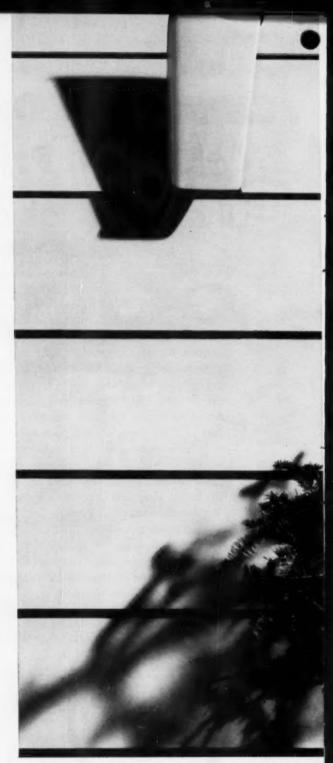


120°F.

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PRIMED SIDING • DUBL-BILT • TRIM-BILT • SOFFITS • ALL WEATHER • STRONG-BILT



TEXTURED SIDINGS by Weldwood in a broad range of panel styles are especially appropriate for traditional architecture and accessories. Shown is a new red cedar siding called *Early American** Cedar. Its deep-textured, brush-abraded surface, accentuating the pronounced grain patterns, can either be painted, stained, or left to weather naturally. The panel surface features 1½"-wide square-cut vertical grooves spaced 12" apart.



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VARIETY WITHOUT

CHANGING FLOOR PLANS



Duraply Siding-Board-and-Batten Style



Duratex Siding



Duraply Lap Sidin



Formton ® Siding

YOU CAN BUILD BETTER HOUSES FOR THE MONEY WITH WELDWOOD SIDINGS

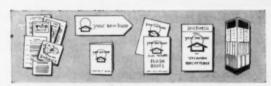
Attractive sidings add eye appeal, strength and permanence at low installed cost. Weldwood's NewMerchandising Program promotes faster sales. Individualized beauty for every home you build is as practical as it is desirable with Weldwood's wide variety of plywood sidings. You can find a suitable siding for every architectural style, or use them in combination to give every home you build a customized "one-of-a-kind" look,

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WELDWOOD SIDINGS



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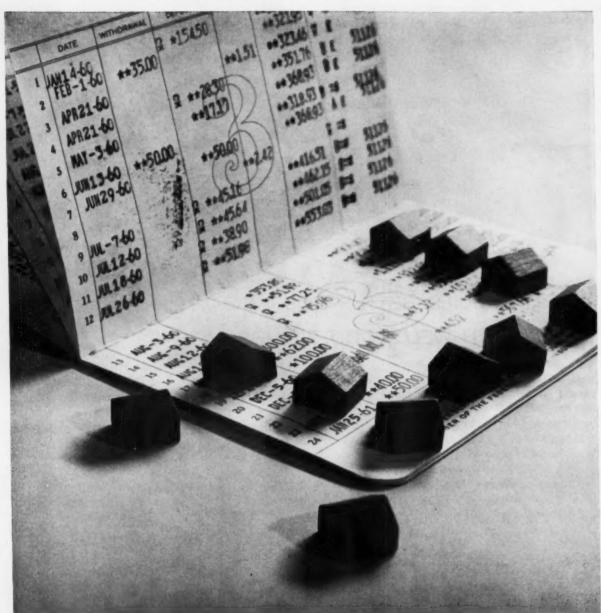
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☐ Please send me your new 12-page Weldwood Siding booklet.	18
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ADDRESS.....ZONE...STATE.....



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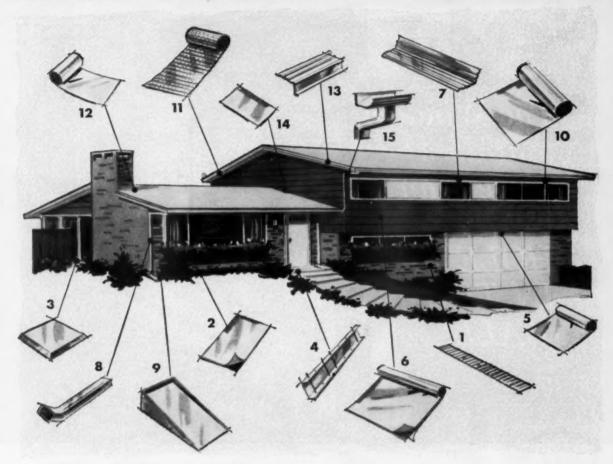
...says Mike Pashcow, President, #1 Nassau County Homes, Inc., Plainview, Long Island, N.Y. "We've been building homes for 13 years and were pleased when 'Rigidwall' helped save us \$70 to \$80 a house over the standard \(\frac{1}{2} \)" plywood sheathing we'd been using. We're also impressed with its ease of handling, scoring, snapping; its strength, resistance to dampness and warping; and its ability to hold firmly asbestos shingle nailing." RIGIDWALL requires no corner bracing. Shingles apply directly (no furring strips needed)—saving more time. And Barrett's exclusive CHEM-FI process preserves original strength of wood fibers. See us soon and save!

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The Hidden Persuaders...that

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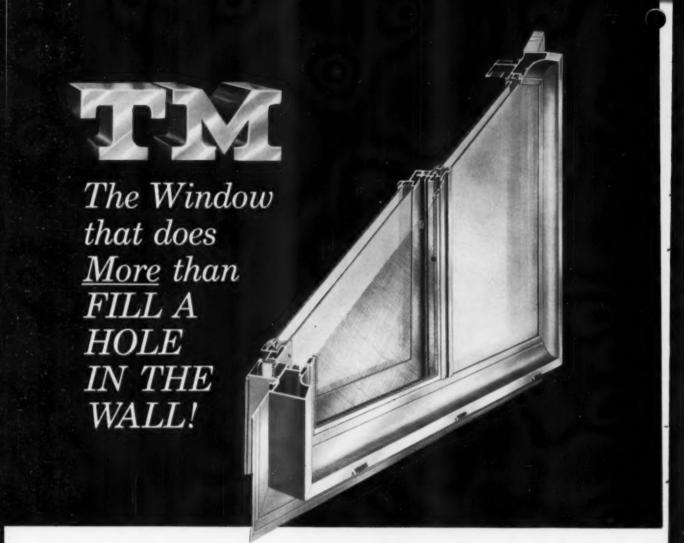
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A Division of Howe Sound Company

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The unique difference in windows today

	1	WOULD	LIKE	A	QUOTE	ON	MODEL	HOME
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feature adds an exciting new value to windows without adding cost. Only a live demonstration of this increasingly popular window can show you all the features that automatically sell it. Why not spend an hour with a TM representative to see how you can profit by installing this window.

Insulated: The most desired quality feature in homes today! And now a window that gives you

insulation benefits . . . a more comfortable house, a house that's economical to heat and

want to stay a step ahead of competition.

air-condition. It's the popular Titan Metals window and it's being used by more and more builders who

The unique Titan Metals built-in double insulation



TITAN METALS

Company Inc.

formerly Textron Metals, Pottsville, Pa.

DOORS & WINDOWS Exterior Wood Door Standards D 000 nnnn 600 110 500 513 514 515 574 575 578 605 606 607 # m 580 501 502 516 517 519 590 591 608 612 134" 2'-8"; 3'-0" and 3'-4" x 6'-8" and 7'-0" 136" and 134" 2'-8" and 3'-0"x6'-8" and 7'-0" 134" 506 507 536 537 538 592 593 594 3'-0" x 7'-6" and 7'-8" 1%" and 1%" 3'-4" and 3'-6" x 6'-8"; 7'-0"; 7'-6" and 8'-0" 2'-8" and 3'-0" x 6'-8" and 7'-0" PLAIN, FLUSH and FLUSH "V" GROOVED 134" x 3'-0" and 3'-4" x 6'-8" and 7'-0" 508 509 539 542 If desired, light openings may be cut in these doors to suit wishes of purchaser. 512 559 560 561 # 620 630 638 640 641 642 EXTERIOR or INTERIOR RIM, HORIZONTAL LIGHT, FRENCH or CASEMENT DOORS 136" and 136" 136" and 134" 2'-0"; 2'-4"; 2'-6" x 2'-8" and 3'-0" x 6'-8" and 7'-0" 562 563 567 596 597 6'-6"; 6'-8"; 7'-0" 134" only 0000 2'-8" and 3'-0" x 3'-4" x 6'-8" and 7'-0" 6'-8" and 7'-0" 2'-6" x 6'-7" 2'-6" and 2'-8" x 6'-9" and 7'-1" 598 644 569 570 571 2'-10" x 6'-11"; 136" and 134" 136" and 134" 2'-10" and 3'-0" x nd 3'-0" x 6'-8" and 7'-0" 6'-9" and 7'-1" 2'-6": 2'-8" and 3'-0" x 6'-6": 6'-8" and 7'-0" 1%" only 736 737 739 749 3'-4" x 6'-8" and 7'-0" COMBINATION DOORS

NOMENCLATURE AND DEFINITIONS

The various terms used in this standard are defined belo

Bor —A bar extends the extreme width ar length of the glass apening and may be either vertical or harizontal between glass. Coped construction —The ends of rails, mullions, muntins, or bars so shaped that they will cover and fit the contour of the sticking.

that may will cover and til the contour of the structure.

Core—The innermost loyer in veneered-door construction.

Crossbanding—The veneer that may be used in the construction of flush doors, which is placed between the core and face veneers with the direction of the grain at right angles to that of the face vaneer.

Door, flush—Made up of core, crossbanding, and face veneers, or of care and face veneers only.

Door, panel —Made up of stiles, rails, and one or more panels; the stiles and rails forming the frame around the panel.

Door, sold—Same as panel door, except that one or more panels are replaced by glass.

Kiln-dried — Dried in a closed chamber in which the removal of moisture is controlled by artificial heat and usually by relative humidity.

Mullian -An upright, or vertical, member between panels.

Muntin —Any short ber, either vertical or horizontal, between glass, and not extending the extreme width or length of the glass opening.

Panel, plywood -A panel made up of care and face veneer.

Pitch seam —An opening or imperfection, parallel to the grain, which is filled with pitch.

Rails —The cross, or horizontal, pieces of the framework of a door

Rail, battam -The battam cross, or harizontal, piece of a door

Rail, lack -- The wide crass, or horizontal, rail of a door at lock height.

Rail, top —The top cross, or horizontal piece of a door.

Sticking —A mold which is worked on the edges of stiles, rails, multio untins, or bars, adjacent to panels or glass.

Stiles —The upright, or vertical, outside pieces of a door

Veneered door -Made up of core and face veneers (may include cross-banding in flush doors).

DOORS & WINDOWS Interior, Garage, and Sliding Doors HINGE GARAGE DOORS PANEL DOORS # # H 00 00 00 721 723 102 103 104 720 1%" x 1%" 2'-8" x 7'-0" and 7'-6" 4'-0" x 7'-0" and 7'-6" 000 000 107 108 109 113 722 724 106 134" and 134" 2'-6" and 2'-8" x 6'-0"; 6'-6" 6'-8" and 7'-0" 3'-0" x 6'-8" and 7'-0" 136" 1'-6" x 6'-6" and 6'-8" 0" and 2'-4" x 6'-0"; 6'-6" SWINGUP GARAGE DOORS 6'-8" and 7'-0" BLIND OR SUMMER DOORS 11/4" and 13/4" 2'-0"; 2'-4"; 2'-6" and 2'-8" x 6'-0" 2'-6" x 6'-6"; 2'-6"; 2'-8"; and 3'-0" x 6'-8" 3'-0" x 7'-0" 780 781 782 136 730 731 8'-0" x 6'-6" and 7'-0" - 9'-0" x 7'-0" ROLLUP GARAGE DOORS FLUSH DOORS 1'-6" x 6'-6" and 6'-8" 2'-0"; 2'-4" 2'-6" and 2'-8" x 6'-0"; 6'-6"; 6'-8" and 7'-0" 3'-0" and 3'-4" x 6'-8" and 7'-0" 787 788 786 FRENCH OR CASEMENT DOORS 136" x 8'-0" and 9'-0" x 7'-0" SCREEN DOORS 622 626 627 789 2'-0", 2'-4" and 2'-6" 2'-4" and 2'-6" x x 6'-6"; 6'-8" and 7'-0" 2'-8" and 3'-0" x 6'-8" and 7'-0" 6'-6", 6'-8" and 7'-0" 2'-8" and 3'-0" x 6'-8" and 7'-0" 116" 761 763 2'6" x 6'-7", 6'-9", 7'-1"; 2'-8" x 6'-9", 7'-1" 2'-10" x 6'-9", 6'-11", 7'-1"; 3'-0" x 6'-9", 7'-1" SLIDING DOORS KOO 00X X000 000X OXO NOMENCLATURE XO OX XXO OXX 12" x 6'-10" OXO 9" x 6'-10" XOO 12" x 6'-10" OXX 12" x 6'-10" OXX 12" x 6'-10" "X" designates sliding panel, "O" stationary, "P" pocket. Included in standard dimensions are steel, "Outminum frames. Custom descriptions furnished to meet individual requirements. XOSX XOOX OXXO ALL TYPES ILLUSTRATED ARE "OUTSIDE LOOKING IN." PXXP OXP PXO

10

DOORS & WINDOWS **Wood Window Standards** POPULAR SIZES AND DESIGNS CASEMENT SASH 13/8" STORM SASH and Prefit SCREENS 11/8" Stiles Bottom Rail 3" Face12%2" Top Rail Vertical Bar %6" Muntin.... **Prefit Face Measurements** ments Storm Sash Screens Sash are made 1/6" narrower and 1/2" shorter than opening sizes given below. St.12%2" St. 1 27/52" T.R.121/22" T.R.12%2" B.R.4 1/4" B.R.3" C.R. 5/6" C.R. 3/4" 1 1. 3 It H 4 Lt. H. 6 Lt. 2 W. 8 Lt. 2 W. Storm Sash or Screens 1-31/2×3- 2 12x33 12×101% 5%x101% Storm Sash and Screens are available for 5%x10% 3.10 41 13 1/2 12-10% 13 1/2 all Standard Windows. The more popular 49 12% 12% sizes conform to the window sizes shown on the preceding page. 16x101% 1-71/2×3- 2 16x33 7%x101% Storm Sash and Screens are made 1/4" narrower and 1" longer than window open-13 1/2 16×10% 13 1/2 7%×10% 3-10 41 4- 6 49 12% 12% ing sizes. CELLAR SASH 11/8" and 13/8" PLAIN RAIL WINDOWS 11/8" .. 121/42 St.1 "%2" T.R.1 "%2" 12/20 121/20 Profit St. Profit St. Profit Profit T.R. 2 %6" Prefit T.R.2 % T.R.121/22 T.R.12%2" 2 3/6" Face Face Face Face B.R. 2 %6" Face B.R. B.R.121/2 B.R.12%2" B.R.12%2 M.R.1 1/2 M.R.1 3/2" Measure-Measure-Measure-Measure-Measure-V.B. 3/40 3/14" V.B. 36 V.B. 75/6 ments ments ments ments ments Mun. 3/10 3/16" Mun. Sash are made Sash are made Sash are made 1/4" narrower %" narrower and %" shorter than opening sizes given below 1/4" narrower and 1/4" shorter than opening sizes given below Sash are made 1/2" narrower and 1/4" shorter than opening sizes given below Windows are mde ½" nar-rower and ½" shorter than opening sizes shown below Windows are mde ½" narrower and ½" shorter than opening sizes shown below 2 Lt. 3 Lt. 4 11. 913/6x12 10x12 2-4×1-4 8 x12 3-8×1-4 911/2x 8 2-4×1-4 12×12 2-8×1-0 1-8 16 111%ex12 1-8 16 1-4 12 4-4x1-4 8 Lt. 12 Lt. 20 1-8 16 1-81/2×3-10 8x10 2-4×3-10 8×10 1021/2x12 2-01/2×4- 6 3-0×1-4 10×12 4- 6 12 1-8 16 2-41/2×5- 2 12x14 2-7×4- 6 9x12 3-4x1-8 12 x16 2-10×4-6 10×12 3- 4x5-2 12x14 BARN or UTILITY SASH 11/8" and 13/4" ..121/st Top Rail121/st" Prefit Face Measurements-Stiles Bottom Rail Sash are made ½" narrower and ½" shorter than opening sizes given below Sash are made 1/4" narrower and 1/2" shorter than opening sizes given below Sash are made 1/5" narrower and 1/2" shorter than opening Sash are made ½" narrower and ½3" shorter than opening Sash are made 1/4" narrower and 1/2" shorter than opening sixes given below below sizes given below 4 Lt. 6 Lt. 2 W. 6 Lt. 3 W. 9 Lt. 3 W 12 Lt. 3 W. 1-8x2-1 8×10 1-8×2-111/4 621/33x 9 8×10 2-1x1-11 7x 9 2-0-2- 81/4 2-4x3-91/2 x10 2-5 12 2-0×3- 51/4 10x12 2-4×2- 1 8x10 2-4×2-111/4 911/six12 8 x10 2-8×4-51/2 2-0×2-1 10x10 2- 5 12 3- 5% 12 3-0x4-51/2 102/2x12 2-5 12 2-7×2- 5 9x12 2-8×3- 51/4 91/six12 2-9 14 2- 9 14 3-1 16 2-10×2- 5 10x12 2-4×2-5 12x12 3-4×2- 5 12x12 "Vertical bar ¾" for Sash 2 lights wide; ¾" for Sash 3 lights wide. 2-9 14 3-1 16 Courtesy National Wood Work Manufacturers Association

DOORS & WINDOWS

Wood Window Standards

	CHE	CK KAIL W	INDOWS 136	- POPULA	SIZES ANI	DESIGNS		
Prefit Face Measurements	Bottom Rail Vertical Bar Horizontal Bar			3" ————————————————————————————————————	Stiles	3" %4" %4"	St123/2" T.R123/2" B.R2 3/4" V.B3 4/6" Mun3 4/6" C.R1 3/2"	St
Windows are made '4" narrower and '5" starter than window opening sizes shown below	2 Lt.	Top 3 Lt. W.	Top 4 Lt. W.	4 Lt. H.	Top 6 Lt.	Top 8 Lt.	12 Lt.	16 Lt.
1-8 x 3- 2	16 x 16			16 x 734	*	************	************	
3-10	20			934				
4- 6	24		***************************************	1134		***********	************	*********
						***************************************	************	
2-0 × 2-10	20 x 14	6 1/2 x 14	***************************************	20 x 634	6 1/2 x 7	**********		**********
3- 2	16	16	*********	734	8	**********	62/32 x 8	*********
3- 6	18	18	*********	834	9	**********	9	*******
3-10	20	20	**********	934	10	***********	10	********
4- 2	22	22	*********	1034	11	**********	11	***********
4- 6	24	24	************	1134	12	*********	12	**********
4-10	26	26		1234	13		13	
5- 2	28	28		133/4	14		. 14	
2-4 x 2-10	24 x 14	721/2 x 14		24 x 634	721/2 x 7			***********
3- 2	16	16		734	8		8 x 8	*******
3- 6	18	18		814	9	***********	9	***********
3-10	20	20	***********	914	10	***************************************	10	***********
	-	-		-				***************************************
4- 2	22	22	***************************************	1034	11		111	***************************************
4- 6	24	24	************	1134	12	**********	12	***********
4-10	26	26	***********	1234	13	***********	13	
5- 2	28	28	**********	13%	14	**********	14	
2-8 x 2-10	28 x 14	9 1/12 x 14	***************************************	28 x 634	9 352 x 7			
3- 2	16	16		7%	8	************	*************	
3- 6	18	18	************	814	9			
3-10	20	20		934	10		913/2 x 10	
4- 2	22	22	***********	10%	11	***************************************		
4- 6	24	24		1134	12		12	
4-10	26	26	***********	1234	13	***************************************	13	
5- 2	28	28		1334	14	***********	14	
		20			1-4		-	-
3-0 × 2-10	32 x 14	***********	71% x 14	32 x 634	*************	713/6 x 7	***************************************	713/ 3
3-10	20	***********	20	934	*********	10		713/6 x 1
4- 6	24	*********	24	1134	********	12	*********	1
4-10	26	***********	26	1234	**********	13	***************************************	*********
5- 2	28	*********	28	13%	***********	14	************	1
3-4 x 4- 6	36 x 24	*********	81% × 24	36 x 11%	**********	813% x 12		813% x 1
4-10	26		26	1234		13		
4-10	20	**********	20	12/4	***********	13	***********	

OTHER DESIGNS and SIZES of STOCK WINDOWS and SASH AVAILABLE

13%

40 x 1134 13%

28

9136 x 24

No attempt has been made in this catalogue to illustrate or list all of the designs and sizes of Ponderosa Pine Stock Windows and Sash that are available. On this and the following page are shown those that are

28

40 x 24

Courtesy National Woodwork Manufacturers Association Inc.

most popular. For a complete listing of all standard sizes and designs, including one light sash, transoms and porch sash, write The National Woodwork Manufacturers Association.

14

913/4 x 12

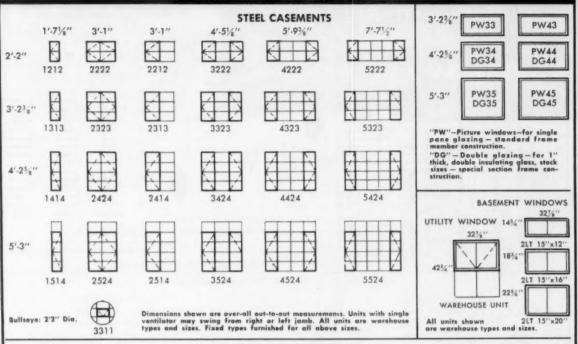
3-8 × 4- 6

14 913/4 x 12

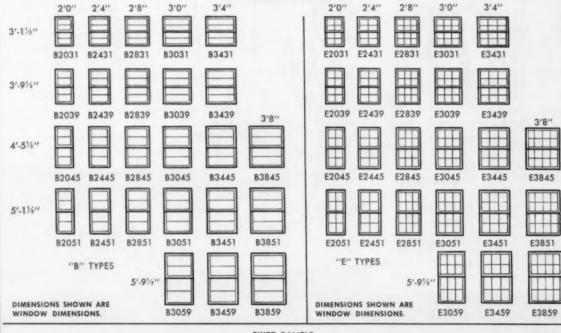
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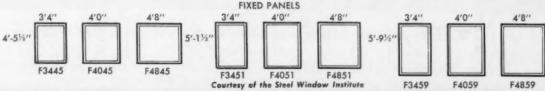
DOORS & WINDOWS

Steel Window Standards (Residential)

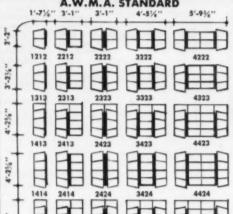


DOUBLE-HUNG WINDOWS









3524

C-A1 CASEMENT WINDOWS for residential-type buildings.

Units with single ventilator may be hinged either right or left.

Fixed types furnished for all sizes shown.



A-A1 AWNING WINDOWS for residential-type buildings.

3132-2 4532-2 1732-2 1742-3 3142-3 4542-3 3153-4 4553-4 1753-4

STANDARD SIZES

3122-1

4'-51%"

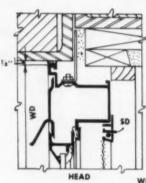
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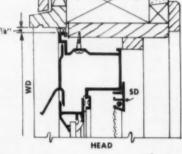
window dimensions

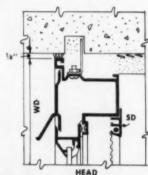
1722-1

Courtesy Aluminum Window Manufacturers of America

SECTIONS THROUGH AWNING WINDOWS





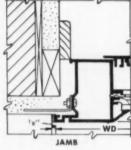


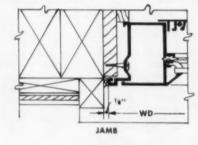


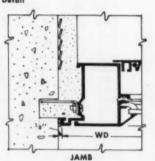
WD = Window Dimension

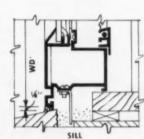
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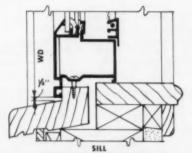
SD = Screen Detail

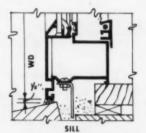












Solid Brick Construction

Frame Construction

Concrete Black Construction



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Casements

Designed for a luxury touch ... yet priced for the modest of homes, Qualitybilt Wood Casement Windows provide the ultimate in window convenience. Slim, narrow mullions: extension hinges for inside cleaning; complete weatherstripping for snug comfort anytime of the year. A variety of high-quality hardware, one light welded or window glass or divided light window glass, and optional bar or diamond inserts give amazing design flexibility. Write for Catalog No. 2073.

4-Ways

The amazing popularity of Qualitybilt 4-Way Windows is understandable. Their tremendous versatility permits using them as Awning, Casement, Hopper, or Fixed units, or in combinations. Units are supplied complete, fully weatherstripped, ready to install. Select roto or lever bar operators, or manual operation, optional glazing (welded insulated or window glass), all-aluminum screens. Bar or diamond inserts available. Write for Catalog No. 2067.



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DUBUQUE, IOWA

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For better housing at lower cost.



IN THE WORKS AT U.S. STEEL RESEARCH:

A nonwarping steel door solid...tight...trouble-free

How many times have you been called back to adjust a door in the homes you've built? It's costly, time-consuming and a nuisance. It's one of the problems U. S. Steel is trying to solve for you right now.

Specialists at our Research Center are working on an exterior residential door far superior to any you've ever seen. It's made of steel sheets with formed edges and its interior is filled with special insulating materials. The door is rimmed with a neoprene strip and set in a steel frame. It won't swell or warp, won't jam in the summer, won't let in cold air in the winter. You can be sure you won't be called back on *this* door! It will decrease your installation costs, too. Because the door will come complete with a frame, it can be hung in half an hour—faster than older installation methods.

U. S. Steel knows you have other home-building problems—and we're hard at work on them. Our research team works closely with the NAHB Research Institute so we'll know just what steel products you need to build better houses for less money.



Front entrance, NAHB Research House at Michigan State University.

THIS Amazing New ELECTRICALLY-OPERATED STEEL PANEL LIFT GARAGE DOOR!



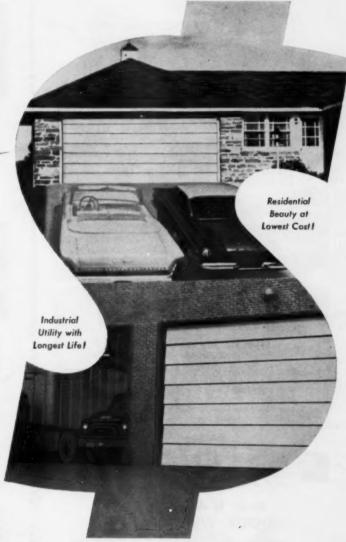
LOWEST IN PRICE OF ANY ELECTRICALLY-OPERATED DOOR FOR RESIDENTIAL OR INDUSTRIAL USE!

Works like a venetian blind!...Saves headroom!... No warp, no screech, no rumble nor rattle!

No other garage door can match the exclusive PANEL-LIFT DOOR for trouble-free performance or save so much space, money and installation time.

Look at these exclusive features:

- WORKS LIKE A VENETIAN BLIND. Panels lift vertically, gliding quietly up their separate channels.
- SAVES HEAD-ROOM. Panels stack into a unit only 10-inches deep. No screechy, dirt-catching overhead tracks. No bulky counterweights.
- SIMPLE, RUGGED DESIGN. Complete all-steel door has only 9 components. Includes automatic-locking and safety-devices.
- EASY INSTALLATION. Only 4 bolts needed to secure door to jamb opening.
- WEATHER-TIGHT to prevent heat loss in winter.
- KEY-OPERATED as standard equipment to foil intruders. Additional remote control switches available if desired.
- RUST AND ABRASION RESISTANT. Doors are primed with a coating specially developed by Standard-Toch Chemicals Co. to give maximum surface protection, ready for finish coat with any conventional outside paint.
- LOW COST. Doors normally cost 50% less to buy and 66% less to install and maintain than other electrically-operated doors.
- SIZES. Standard residential sizes in 20-gauge steel; industrial sizes in 16- and 18-gauge. Sizes to 80 feet in length available on special order.



DEALER OPPORTUNITY. Investigate the dealer-profits in these amazing PANEL-LIFT DOORS. Write today for brochure and full details, without obligation, to Dept. A-461

PANELILIFT DOOR CORPORATION

SUBSIDIARY OF STANDARD-TOCH INDUSTRIES, INC.

1724 CHESTNUT ST., PHILADELPHIA 3, PA.

(A few restricted wholesale distributorships are still available.)





For more SEE-able features... Quality Building Products



M-D Numetal WEATHER STRIP

Packaged sets for doors. In stainless steel or bronze. Complete packaged units mean easier handling for you
. . . easier installation for customers. M-D Numetal door sets available with regular door bottoms or with any M-D threshold.



DOOR WEATHER STRIP

Extruded Aluminum & Durable Vinyl

Perfect for wood or metal doors. Made of sturdy, extruded aluminum and tough, durable vinyl. Comes completely packaged with necessary strip, nails, screws and instructions. Available with or without extruded aluminum and vinyl DV-1 Door Bottom.



M-D H-4 FOLD-BACK DOOR WEATHER STRIP



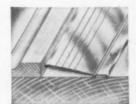
Automatically spaces itself when properly placed against door stop. A smoothly-operating, economical packaged set for all standard doors. Aluminum or bronze-with any door bottom or threshold desired. Nails, screws and instruc-tions furnished in each set.



M-D Nu-GARD AUTOMATIC DOOR BOTTOMS

For ALL doors. With silvery-satin or Albras finish-will not rust or tarnish. Furnished in standard lengths —28", 32", 36", 42" and 48".





M-D On-GARD WEATHER STRIP

All-metal weather strip in handy rolls. 8 widths in either stainless steel or bronze. Features built-in tension, embossed nail zone and hum-proof edgel

M-D Nu-WAY WEATHER STRIP

The "original" coil metal and wool felt weather strip. Fast-selling because it's so easy to put on, Each in-dividual package contains one 18 ft, roll with nails and instructions. Packed 12 cartons in free display.



M-D CASEMENT WINDOW WEATHER STRIP

Easy to install on steel or aluminum casements. Slips over window flange. Style No. 1 is used on head and lock side or swinging edge of metal casement windows. Style No. 2 is used on hinge side and the sill.







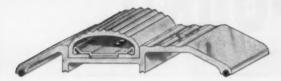




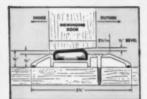
Sold by Leading and Building Supply Dealers. RS ORDER TODAY

For more SELL-able features...

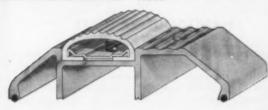
for Doors and Windows



M-D EXTRUDED THRESHOLDS



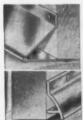
AP-33/4 —America's most popular threshold with replaceable vinyl insert. Note vinyl calking strips under each leg, which may be removed if the use of Nu-Calk Calking Compound is preferred. Available in Alacrome or Anodized Albras.



AP-118—(above) Designed especially for thick pile rugs. Has vinyl calking under legs, as well as replaceable vinyl insert. Available in Alacrome or Anodized Albras.



AP-158 —Threshold of sturdy, extruded aluminum with replaceable vinyl insert. Can be used an bottom of door or an top of wood threshold. Available in Alacrome or Anodized Albras.



M-D DRIP CAPS

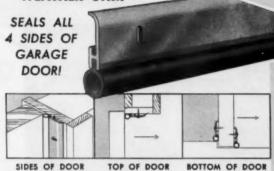
Prevents rain from draining or blowing under door or wood casement windows.

ment windows.

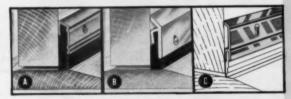
A vailable in DCA Aluminum or DCA Albras. Holes punched, nails furnished—comes in any length.

B New, heavy duty extruded aluminum drip cap. Packed in individual poly tube. Available in natural Alacrome and in 3 permanent Anodized finishes. Standard lengths 32", 36", 42" and 48".

M-D GARAGE DOOR WEATHER STRIP



Sturdy extruded aluminum and durable vinyl that lasts a lifetime. Exclusive design of vinyl weather strip seals out rain, snow, drafts, dirt. Made especially for overhead doors (both sectional and solid types) but may be used on almost every type of garage door. Packaged sets in poly tubing include screws and instructions.



M-D DOOR BOTTOMS

A M-D Numetal Door Bottom made of extra thick wool felt and heavy gauge stainless steel, brass or aluminum. Standard lengths—28", 30", 32", 36", 42" and 48".

B M-D heavy duty extruded aluminum and felt door bottom in Alacrome or Anodized satin, bright or brass colors, in all standard lengths.

C M.D extruded aluminum and vinyl door bottom—
in natural Alacrome or Anadized Albras finish—
in all standard lengths.



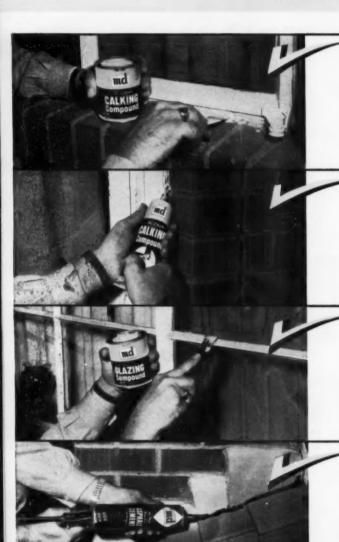
MACKLANBURG-DUNCAN CO.

Manufacturers of Quality Building Products • Box 1197 • Oklahoma City 1, Okla.

Those who know Quality always want



med CALKING & GLAZING COMPOUND



Mu- (ALK CALKING COMPOUND in Bulk-Knife or Gun Grade

Off-White Color available in knife or gun grade. Pure White Color available in gun grade only. Off-White shipped unless White specified. Gun Grade meets Federal Specifications No. TT-C-598 (Grade 1). Available in 1/2 pt., pt., qt., gallon, 5 gal. and 55 gals.

HAND SQUEEZE TUBES

for small jobs

No gun needed. Simply remove cap from built-in nozzle, fasten key over crimped end, turn key and start calking. Here's a fast-moving item for over-the-counter sales. Packed 12 tubes in a handsome "Silent Salesman" display carton that can be quickly set up on your counter.

Nu-Glaze GLAZING COMPOUND Always stays "PUT"

Here's the perfect material for glazing wood or metal sash, replacing putty, setting plumbing, filling cracks, boatwork of all kinds. Clean to handle, easy to use. Will not dry out, harden, crack or peel. Available in ½ pt., pt., qt. cans; 25, 50, 100, 880 lb. drums.

Nu. Phalt PLASTIC ASPHALT CEMENT for all jobs!

Ideal for sticking down asphalt shingles and floor tiles ... for use on roofs, chimneys, flashings. Packed 12 loads to a carton... with or without plastic nozzle. Shipped without nozzle unless specified. Also available in 21/2 and 10 lb. cans; 50 lb. pails; 550 lb. drums.

Advertised Nationally in 17 Leading Consumer Magazines BUILDERS Sold by all Hardware, Lumber and Building Supply Dealers.

DEALERS ORDER TODAY -your order will receive prompt shipment.



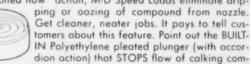
Perfect for Today's Quality-Built Homes!



AMERICA'S FAVORITE!

SPEED LOAD

WHEN ONLY THE BEST is good enough—builders and home owners choose M-D Speed Loads every time! With "controlled flow" action, M-D Speed Loads eliminate drip-



pound when desired!

- · Available in white or off-white color.
- Available with or without plastic nozzle.

M-D Speed Loads are packed 12 loads to each carton. Please order in multiples of 12. Off-White loads without nozzle always shipped unless otherwise specified.

Meets Federal Specifications TT-C-598 (Grade 1)



NEW EXCLUSIVE FEATURES!

• NEW PLASTIC NOZZLE



New plastic nozzle provides on-the-job choice of 4 different size nozzle openings: 1/8", 3/16", 1/4" and 3/8". No longer do you have to change gun nozzle to get a small or large bead of calking.

. BUILT-IN CUT-OFF ON GUN HANDLE

As shown, the CG-4 gun now has a built-in cut-off knife blade on the trigger of the gun. Tip of plastic nozzle is cut off by squeezing trigger.





MACKLANBURG-DUNCAN CO.

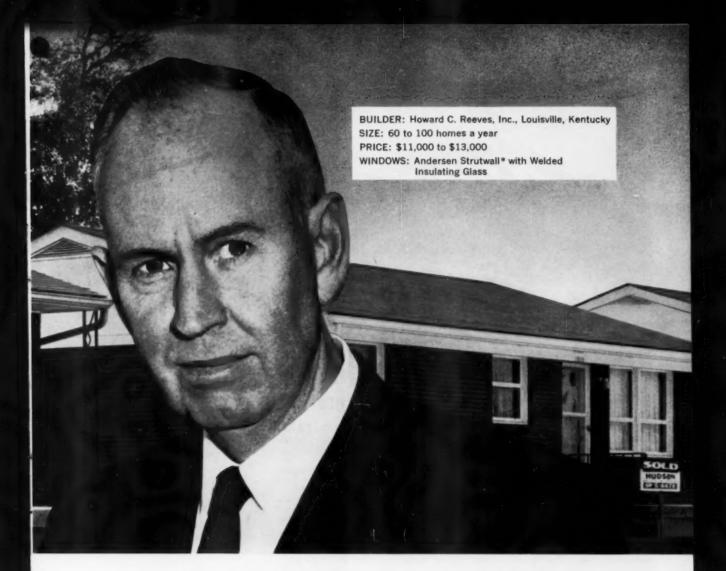
MANUFACTURERS OF QUALITY BUILDING PRODUCTS
BOX 1197 • OKLAHOMA CITY 1, OKLAHOMA



"THIS ANDERSEN LABEL



This label is factory applied as of March 1, 1961



IS A BIG HELP IN SELLING OUR

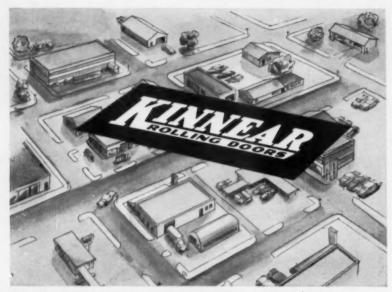
\$13,000 HOMES Starts were down 20 to 30% in 1960—but Louisville Builder Howard Reeves sold at his usual rate of 60 homes.

1960 was a bad year for builders generally. But not for Howard Reeves! He credits Andersen Windows with a good part of his success. "Many of our prospects know Andersen is a top quality window, but they are almost always surprised to find Andersen with welded insulating glass in homes in our 11 to 13 thousand-dollar price range. "The Andersen label is a good starting place for our salesmen to point out all the quality brands and features we put into our low price homes."

Why not put America's best and bestknown window to work for you? Take advantage of the fact that in the minds of many buyers, the Andersen name is a sure sign of high quality throughout the house. Remember-this fact is being stressed all year long in big, fullcolor advertisements in Life and Better Homes and Gardens.

Check your lumber and millwork dealer for all the Andersen facts. And send for the new 1961 Home Promotion Kit. It's free-and this kit also includes the new Andersen labels.

*Trademark of Andersen Corporation



KINNEAR DOOR Quality has a place in every building picture

Only four Kinnear space-saving doorway products are shown below. All reflect the extra quality for which Kinnear has been recognized through more than half a century. They meet many needs, in buildings of every classification. And Kinnear equipment is never "orphaned" . . . all are REGISTERED — parts are always replaceable from engineering details kept in Kinnear's fireproof vaults! It pays to insist on Kinnear!

SEND FOR NEW DATA -

Be sure you have all data on the complete Kinnear line - upward-acting sectional doors (steel or wood) . . . protective "see-through" rolling grilles . . . interlockingthrough" rolling grilles . . . interlocking-slat counter shutters and service doors (aluminum, steel or other metals) . . . Kinnear Power Operators — also U-L labeled fire doors, Bi-

fold (two-section jackknife) doors! Lots of useful "specs". Send for FREE copy today.

The KINNEAR Manufacturing Co. Factories: 1560-80 Fields Ave., Columbus 16, Ohio; 1742 Yosemite Ave., San Francisco 24, Calif. Offices and Agents

in All Principal Cities



BRAND NAMES DIRECTORY

(Continued from page 132)

MARLITE HI GLOSS Marsh Wall Products Inc MARLITE KORELOCK Marsh Wall Products Inc
MARLITE MARBLE PANEL Marsh Wall Products Inc MARLITE PLANK Marsh Wall MARLITE POLISH Marsh Wall Products Inc MARLITE RANDOM PLANK Marsh Wall Products Inc MARLITE TRENDWOODS Marsh Wall Products Inc MARSCHKE Grinding &
Polishing Mach
MARSH MOULDINGS Marsh Wall Products Inc MARTHA WASHINGTON Gray & Dudley Co MARVAIR Muncie Gear Co MARVAN TAPE Marvan Corp MARVEL-LIFT Crawford Door MARZOLF Farwell Metal Fabricating MASCO Simpson Mark Mfg Co MASLAND DURAN CLAD Masland Duraleather Co
MASON-DRI Sapolin Paints Inc
MASONITE Masonite Corp
MASONIZE American Asbestos MASTER-BILT Bird & Son Inc MASTER CLEANER & POLISH Miraplas Tile Co MASTER CRAFT Met-Cro Specialties Co Inc. MASTER-FLUSH DOOR Hardwood Products Corp MASTER GLAZIERS Biddle Co MASTER MASTIC Miraplas MASTER PROFESSIONAL 8 Holt Mfg Co MASTERKURE Master Builders Co
MASTERLINE Blonder-Tongue
Laboratories Inc
MASTERIX Master Builders Co MASTERPLATE Master Builders Inc MASTIC Crown Tile Corp MASTICBOARD Camp Co Inc MASTIPAVE Fiberboard Paper Prods Inc
MATICO Mastic Tile Div Ruberoid Co MATICO CONFETTI Mastic Tile Div Ruberoid Co MATICO MATICORK Mastic Tile Div Ruberoid Co MATICOVE Mastic Tile Div Ruberoid Co MAX-BOND Kaiser Aluminum & Chemical Corp & Chemical Corp
MAXAW Cummins Portable
Tools Div John Oster Mfg
MAXIM-AIR Republic Steel
Corp Truscon Div
MAXIMUL Kaiser Aluminum &
Chemical Corp
MAYES Mayes Bros Tool Mfg
MAZEMADE Maye W H Co McDONOUGH McDonough MCDONOUGH ACCOUNTS
Mfg Co
MECHANIZED MOLE Molco
Drilling Machines Inc
MEDALIST LOCKSETS
Medalist Hardware Div
MELLUX Sapolin Paints Inc
MELBOURNE Remington
Alum Window Corp Alum Window Corp MELLO-GLOSS Lowe Bros MELLO-TEX Lowe Bros MELLOTONE Lowe Bros MELLOTONE Mosaic Tile Co MENGELWOOD Mengel Co MERCURY Vulcan Electric Co MERCURYS Weatherbest Corp MERLIN Fitzgerald M J Co MERTLAND Hedges M M



grids for diamond, colonial or custom light divisions.

This new Malta unit carries an economy price tag-but it is constructed with custom quality appointments. Superb gold-tone hardware and window trim...smooth action roto-operators...inside screens... the ultimate in weatherproof protection against drafts, dust and moisture ... and extended hinges that permit cleaning from the inside ... are a few "buy-appeal" features.

Malta precision milling and finishing ... a stronger, more rigid frame . . . a new sill design that assures proper drainage bring fast, easy installation.

Frames are shipped KD to jobber . . . fitted for double glazing standard or insulated glass . . . hardware attached . . . manufactured to conform with Commercial Standards CS205-59.

See the all new Malta Casement window at your nearest Malta dealer today or write directly to the factory for full details,

Supreme Quality Since 1901

THE MALTA MANUFACTURING CO., MALTA, OHIO





Member Ponderosa Pine Woodwork Assn. and N.W.M.A.

"Twindow Insulating Glass has become



TWINDOW in every window makes every room comfortable. What looks like small panes in upper windows are actually snap-on moldings over a large pane of glass.



HIGH-FIDELITY® Mirrors of twin-ground Pittsburgh Plate Glass on sliding clothes closet doors have real sales appeal to the women.



Metal edge TWINDOW in PITTCO® Sliding Glass Doors and large glass areas gives maximum insulation.

one of my best selling features,"

says Wendell P. Wright, builder, Indianapolis, Indiana

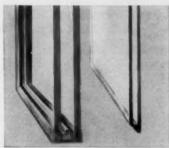
This beautiful home is one of the 12 to 15 that Wendell P. Wright builds annually in the Indianapolis area. He constructs better homes, on a speculative basis, in the price range of \$38,000 and up and is highly regarded for the quality of his homes. All the houses have TWINDOW Insulated Glass in the windows and sliding glass doors!

Mr. Wright says, "TWINDOW Insulating Glass adds the comfort and convenience that are demanded in today's homes. I build only better quality homes and I use TWINDOW because it is one of my best selling features. TWINDOW Insulating Glass adds the quality touch to the windows of the homes I build."

TWINDOW is two panes of Pittsburgh Glass with an insulating layer of dry air sealed between. It keeps a home warmer in winter, cooler in summer. Cold drafts near windows are reduced. TWINDOW minimizes window steaming and frosting . . . provides window insulation in its most convenient form.

Give your homes the extra sales appeal of TWINDOW in every window and sliding door. It comes in glass edge or metal edge in all popular sizes. Our free TWINDOW booklet will give you the details. Write: Pittsburgh Plate Glass Company, Room 1132, 632 Fort Duquesne Blvd., Pittsburgh 22, Pennsylvania.





TWINDOW-METAL EDGE (left) for large windows. Made with two panes of ½" Plate Glass, with a ½" sealed air space between. TWINDOW-GLASS EDGE (right) for smaller windows. Made from two panes of ½" PENNVERNON® Window Glass with a 3/16" air space between.

TWINDOW

... the windowpane with insulation built in

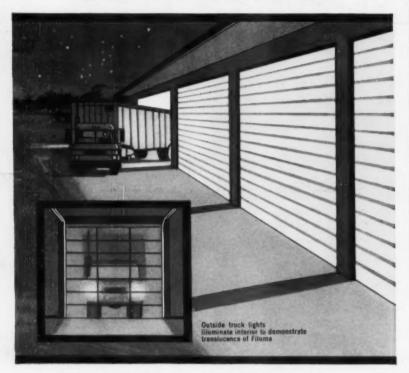


Pittsburgh Plate Glass Company

Paints • Glass • Chemicals • Fiber Glass In Canada: Canadian Pittsburgh Industries Limited

FILUMA® Fiberglass-Aluminum Extension Spring Doors

Performance-proved translucent overhead type door for commercial and industrial use



- · Clean lines for modern building design
- · Lets light in like a skylight
- Saves window installations

Filuma is winning increased preference by operators and builders of many kinds of business and types of construction for these reasons: Translucencelight floods in to vastly improve working conditions. Light weight-only onethird that of wood doors . . . a much smaller power unit can operate the largest sizes. Modern materials-reinforced fiberglass panels, in a sculptured design, are encased in tempered extruded aluminum with reinforcing rails for all sizes. Durable and maintenance free-will not split, impervious to corrosion. Shatterproof, shrinkproof, weatherproof. Never needs painting. Hoses clean. Custom made to fit door openings up to 14' high or 16' wide. Five colorswhite, yellow, green, tan, coral. Trained installation not required. Filuma is nationally distributed through lumber yards and building supply dealers.

SWEETS 16i/FRA



FILUMA IS A PRODUCT OF

FRANTZ

MANUFACTURING COMPANY STERLING, ILLINOIS

Manufacturers of Over 100 Sizes and Styles of Sectional and One-Piece Overhead Type Doors for Residential, Commercial, and Industrial Application. Extension and Torsion Spring.

BRAND NAMES DIRECTORY

(Continued from page 160)

MET-CRO Met-Cro Specialties Co Inc
MET-L-GLIDE Lock-Joint Window Co
METAL-LITE Rich Howard B METAL MESH Alabama Wire METALACE Plextone Corp of America
METALBESTOS Metalbestos METALBESTOS Metalbestos Div Wm Wallace Co METALLIC Lufkin Rule Co METALON Horn A C Cos METALSET Smooth-On Mfg METERGAS Suburban Propane Gas Corp METLVENT Hart & Cooley Mfg Co
METRO Motor Truck Div
International Harvester Co
METRO-MIX Bestwall Gypsum
METRODECK Goldsmith Metal
MEZURALL Lufkin Rule Co MIAMI-CAREY Miami Cabinet Div Philip Carey Mig
MICARTA US Plywood Corp
MICARTA Westinghouse
Electric Corp Electric Corp
MICARTABORD US Plywood
MICHIGAN Clark Equipment
MICRO-LOK Johns-Manville
MICRO-LOK Johns-Manville
MICRO-LOK Johns-Manville
MICRO-LOK Johns-Manville
MIDGET Metgar Conveyor Co
MIDGET Midget Louver Co
MIDGET Witca Radiator Corp
MIDGET Witca Radiator Corp
MIDGET Witson J G Corp
MIGHTY MIDGET PULLERS
Coffing Hoist Div Duff-Norton
MIGHTY MITE Holly-General
MIGHTY-MITE Remington
Arms Co Inc
MILCOR Inland Steel Products MILCOR Inland Steel Products MILDOOM Sapolin Paints Inc MILLER Miller, Frank B Mfg MILMARK Mastic Tile Div Ruberoid Co MINABOARD Armstrong Cork MINATONE Armstrong Cork MINIATURES Buffalo Wallcraft Co Inc MINNCOTE Minnesota Paints MINNCOTE Minnesota Paints
MINNFLO Minnesota Paints
MINNSPAR Minnesota Paints
MINUTE MAN Slaymaker Lock
MINUTE MOUNT Progress
Mfg Co Inc
MIRACLE BLACK MAGIC
MIRACLE BLACK MAGIC Miracle Adhesives Corp MIRACLE FLOOR Camp Co MIRACLE TAPE Gering Plastics Div MIRACLE TUB CAULK Miracle Adhesives Corp Miracle Adhesives Corp Miracle Teddon Co Miraplas Miraplas Tile Co Mirarim Elkay Mfg Co MIRATRIM Miraplas Tile Co MIRRO-CHROME Penn-Akron MITCO Hendrick Mfg Co MITY MIDGET National-Detroit Inc MIX ELVATOR Air Placement Equipment Co
MOBILE MAID General
Electric Co Major Appliance
MOBILEWALLS Virginia
Metal Products Inc
MODERN-COTE New Castle MODERN MAID Tennessee Stove Works
MODERN PROVINCIAL
Amerock Corp
MODERNE Luxor Carpet Co MODERNFOLD New Castle Products Inc
MODERNWOOD Modernwood MODU-AIRE US Air Conditioning Corp
MODULITE General Bathroom

(Continued on page 168)

Products Corp



Sometimes "seeing spots" is a healthy condition; it's especially healthy for your business when they see Rimco's Sales Spots. Ask your Lumber Dealer about this new idea to merchandise Rimco Wood Window Units in your model homes. These colorful 5" pressure-sensitive "spots" will tell your prospects about Rimco benefits like: preservative-treated Ponderosa Pine construction; premium stainless steel and anodized aluminum weatherstripping; wood bead glazing; decorator hardware; "Gold-Tone" screen frames; A.W.W.I. "seal of approval" and many more, dependent upon the type of Rimco Wood Window Units you install. Choose from a complete line of casement, double-hung, horizontal sliding, awning type, and single-jamb fixed sash over awning. Plan right now to cash in on this new idea to help sell your homes. See your Lumber

Dealer or write directly to:

ANOTHER NEW MERCHANDISING IDEA FROM RIMCO

RIMCO.

FACTORY DIVISION, P. O. BOX 97
Rock Island, Illinois

(SEE OUR CATALOG IN SWEET'S FILE)

DESIGNED AND ENGINEERED BY ROCK ISLAND MILLWORK COMPANY . HELPING BUILD AMERICA FOR OVER 90 YEARS

LABOR-SAVING PRODUCTS

kewane

Residential Interior STEEL DOOR FRAMES



PLASTERITE - (PATENTED) - UNIVERSAL "KWIK-FIT"

INSTALLS BEFORE PLASTERING

SNAPS OVER DRYWALL

FULL LINE OF HOLLOW METAL DOORS AND FRAMES

FULL LINE OF "BUCK" WINDOWS FOR POURED WALLS



STANDARD 2-LITE





CASEMENT HOPPER VENT RANCH AND BLOCK "BUCK" WINDOWS .

"BUCK" DOOR FRAMES

OTHER KEWANEE QUALITY PRODUCTS

- Clean-Out Doors
- · Ash Dumps
- Commercial Windows

Utility Windows

• Basement Coal Chutes

· Steel Mortar Boxes,

Write for Literature kewanee

Canufacturing

461 ROMPEL AVE. . KEWANEE, ILLINOIS

The Cost of Quality more than repaid

in direct labor savings!



... and only real quality will sell in the 60's!

Spend just five minutes at your building materials dealers examining his Columbia-matic display model, and the total marketability of the folding door will be crystal clear. Installs in seconds, narrow, neat, with exclusive pantographs mechanism, it is built to stand up to abuse. No complaints, no call-backs. Washable, fire retardant, highly styled, it comes in widths to 4 ft.—heights to 8 ft. Can be hung in pairs.

For complete details see your distributor, or write Dept. 114

THE COLUMBIA MILLS, INC.

368 S. Warren Street, Syracuse 1, New York

WAGNER



GARAGE DOORS and Electric OPERATORS

THE COMPLETE LINE for

- RESIDENTIAL
- COMMERCIAL and
- INDUSTRIAL SERVICE
- Get full details on styles, types and sizes available in both wood and steel. Write for Catalog ABH-61



If interested in metal sawhorse legs, building brackets, hangers and tracks, joist supports or studding sockets, ask for Hardware Catalog AB-61

WAGNER MANUFACTURING COMPANY CEDAR FALLS TOWA. U.S.A.

PELLA PRODUCTS







FREEMONT UNION HIGH SCHOOL, SUNHYVALE, C ARCHITECTS: MASTEN, HURD AND GWATHMEY BUILDER: FRIETAS CONSTRUCTION COMPANY

10 m

SOLID WOOD BLOCK CORE
of each panel is laminated
with water-resistant plastic
glue and faced with genuine
wood veneer.

wood folding partitions

provide walls that "get out of the way"

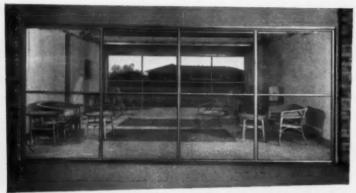
Wherever a single floor area must serve two or more activity groups, there's a place for heavy-duty pella wood folding partitions. Besides solving fast-changing space division problems, these handsome partitions also lend rich interior beauty to schools, churches, offices, clubs and restaurants. Massive panel dimensions of 10%"x 11½" emphasize the natural grains of 6 genuine wood veneers. Laminated stable core construction permanently prevents warping. Patented "live-action" hinging maintains panel alignment. For any opening width and heights up to 20'—1". Call the Pella distributor listed in the classified section of your telephone directory or mail coupon.

& Fine Wood Vensers . ASH . OAK . PHILIPPINE MAHOGANY . AMERICAN WALNUT . BIRCH . PINE

PELLA ALS	O MAKES QU	ALITY WOO	D FOLD	ING DOORS,
WOOD SL	IDING GLASS	DOORS,	WOOD	CASEMENT
AND MILE	TIDLIDDOSE	WINDOWS	AND F	OI SCREENS

ROLSCREEN COMPANY, Dep	t. MB-26, Pella, Iowa
Please send details on PELLA We	DOD FOLDING PARTITIONS
NAME .	
PIRM MAME	
AUDRESS	
CITY & TOME	STATE

..... THIS COUPON ANSWERED WITHIN 24 HOURS



INDOOR LIVING AT ITS BEST



EASY ACCESSIBILITY



FINGERTIP OPERATION

RAYNOR Garage-Aire SCREEN DOORS

Mean SALES for the Homes You Build!

The garage becomes a SUM-MER FAMILY ROOM . . . a cool, insect free covered breezeway for summer living that means usable — livable floor space at a low, low cost.

- Rugged, rolled aluminum frame, weatherproof fiberglass screening
- Available in both one and two car sizes
- Easily installed without costly alterations
- Attractively designed, will not mar the beauty of your homes
- Will not interfere with the operation of the garage door

ENHANCES ANY ARCHITECTURE



RAYNOR MFG. CO.

Dixon, Illinois Hammonton, New Jersey

Builders of a Complete Line of Sectional Overhead Type Doors

BRAND NAMES DIRECTORY

(Continued from page 164)

MOE LIGHT Thomas Industries Inc MOEN Moen Faucet Div., Standard Screw Co MOHAWK Behr-Manning Co MOHICAN Mansfield Sanitary MOISTOP American Sisalkraft MOISTOP American Sisalkraft
MOLCOR Bemis Mfg Co
MOLY Wood Shovel & Tool Co
MONARCH Dietz R E Co
MONARCH Martin-Senour Co
MONCRIEF Henry Furnace Co
MONO-FIBRICK Kaiser
Aluminum & Chemical Corp
MONO-FLASH Carrollton
MONO-D-JECT Smith &
Loveless Div Loveless Div MONOGRAM Monogram Industries Inc
MONOMASTER Boice Crane
MONOPANL Butler Mfg Co
MONTEREY Fiat Metal Mfg
MONTEREY Rudiger-Lang Co
MOORE GAS HEATER MOORE GAS HEATER
Locke Stove Co
MOORE-O-MATIC Moore A E
MOPA-COTE Mobile Paint Mfg
MOPACO VAR Mobile Paint
MOR-SUN Morrison Steel
MOR-TILE Morton Ceramic Tile Cr MORTASEAL US Gypsum Co MORTITE Mortell J W MOTO-BUG Kochring Co MOTO-MIXER Chain Belt Co MOTO-TRIMMER Bosworth Mfg Co MOTORDOR Broan Mfg Co MOTRAC Meterola Communications MOULSTONE Thomas Moulding Floor Co Inc MOUNT AIRY GRANITE MOUNT AIRY GRANTE MOUNT Carolina Granite Corp MOUNT VERNON Gerber Plumbing, Fixtures MT VERNON MT VERNON
Mt Vernon Furnace & Mfg Co
MOVNO Robbins & Myers Inc
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MUTTAY Mfg Corp
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MUELLER CLIMATROL
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Insulation Co Inc
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LIS Expension Pak US Expansion Bolt Co MULTI-FIN Rund Mfg Co MULTI PAK Slant-Fin Radiator Corp MULTI-PITCH H-C Products MULTI-SHINGLES Allied Chemical Corp MULTI-TEMP Hydrotherm MULTI-USE DRIVERS
US Expansion Bolt Co
MULTI-WOOD-BLOK Fair D L Lumber Co MULTIMATIC Seidlitz Paint & Varnish Co MULTITINT Seidlitz Paint & Varnish Co MURALS Birge Co Inc MURRAY Gladding McBean MUSI-KOM Home Music Systems Inc MUSI-TALK Fanon Electric Industries Inc MW-ONE Carey Philip Mfg Co MW-50 Carey Philip Mfg Co NAILDRIVER Morgan Machine NAILMASTER Stanley Tools NAILON-BRICK Ludowici-Celadon Co (Continued on page 192)

PELLA PRODUCTS

THE FOCAL POINT OF QUALITY



ARCHITECT: HOWARD W. TUTTLE



ROLSCREEN

the inside screen that rolls down, up and out of sight.



wood casement windows

give homes "talk-about" quality

Home buyers instantly recognize the unique convenience of ROLSCREEN®—
the inside screen that rolls down in the spring and up in the fall. The "here's-how-it-works" attraction of ROLSCREEN will continually remind the occupants of your good judgment in installing PELLA WOOD CASEMENT WINDOWS. Inside storm panels are also self-storing. Removable muntin bars available in regular, diamond and horizontal styles. The lasting beauty of genuine Western Pine is fortified by a 16-gauge steel frame surrounding the entire window. For sizes and prices, call the PELLA distributor listed in your classified telephone directory or mail coupon.

____ THIS COUPON ANSWERED WITHIN 24 HOURS -___

PELLA ALSO MAKES QUALITY WOOD MULTI-PURPOSE WINDOWS, WOOD FOLDING DOORS AND PARTITIONS, ROLSCREENS AND WOOD SLIDING GLASS DOORS ROLSCREEN COMPANY, Dept. MB-27, Pella, Iowa Please send illustrated details on PELLA WOOD CASEMENT WINDOWS with the exclusive Rolscreen feature.

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FIRM NAME

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CITY & ZONE

STATE



8:00 a.m. You are about to view a new, costsaving, one man "K-D" frame installation for wood doors using Amweld Steel E-Z Frames. E-Z Frames are installed OVER 1/2" drywall! First, the wood stud is checked for plumb.



8:01 a.m. Hinge jamb is placed in starting position and rotated to vertical. Lightweight sturdy 22 gauge, rust-resistant steel sections are easy for one man to handle.



8:02 a.m. Place header in starting position and rotate to horizontal position. Note trim hairline-mitered corner. Provides neat, professionally-finished appearance without on-the-job fitting.



8:03 a.m. Now strike jamb is placed into starting position and rotated to vertical position. Beveled profile of E-Z Frame harmonizes well with contemporary decor.



8:04 a.m. Spacer is positioned for parallel alignment of jambs. Overlapping design simplifies installation over drywall. All steel frame eliminates splitting and warping. No call backs.



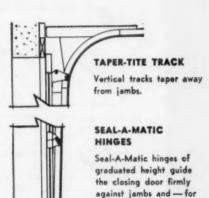
8:05 a.m. Base anchors at bottom of jambs are nailed and the strike plate and rubber bumpers installed. No nail holes to fill . . . anchors covered by base molding.

WATCH HIM BEAT THE "COST CLOCK" WITH E-Z FRAME, NEW STEEL FRAME FOR WOOD DOORS AND DRYWALL. 6 E-Z MINUTES TO INSTALL. NO MITERING, DRILLING OR FITTING. SAVE \$2.00 OR MORE PER OPENING. ANOTHER PROFIT-BUILDER BY MWFIN°



RōWAY Garage Doors

HELP CLOSE SALES BY SEALING OUT WEATHER



opening - free the door

from jambs for easy.

frictionless operation.

When you're selling prospects up the quality ladder, the weathertight features of RoWay Doors help you make it to the top. Exclusive Taper-Tite Track and Seal-A-Matic Hinges effectively seal out snow, rain and dust. All units are fitted with galvanized, rust-resisting hardware for complete weather protection. Buyers also respond instantly to the quick, effortless lifting action made possible by "Power-Metered" springs. Every door is counterbalanced with a custom-wound spring - an advantage gained through RoWay's single-plant fabrication of all components. All RoWay Doors can be fitted with motor operators. To help you beat deadlines, hardware and door sections are shipped from the factory at the same time. For your next sale, let RoWay features help you open the door to bigger sales in the quality home market.

there's a Ro Way for every Doorway!





COMMERCIAL . INDUSTRIAL . RESIDENTIAL



ROWE MANUFACTURING COMPANY

1025 Holton Street . Galesburg, Illinois



LEGEND

- 1. Track
- Adjustable Jamb
- Angle Iron Stiffener 16 Gauge Galv.
- Nylon Guide

QUALITY FEATURES

for lifetime service

- Track cannot drop: fits on top of split header.
- Trims out same height as swinging door: you do not have to cut door off. (821/2" ROUGH OPEN-ING
- Uses concave wheel with oilless bearing. Rolls trouble free on raised track rather than in groove. Eliminates picking up dust and seem.
- Has adjustable split jamb which allows frame to be used with either dry wall or plaster, or a combination of both.
- Has 16 gauge Galvanized Angle Iron Stiffeners on split jambs. Strongest on the market.



MADE FOR ALL POPULAR DOOR SIZES.



400-AB North First Street Nashville 7, Tennessee





LARGER CEILING OPENING

to enable home owners to take full advantage of attic space. Now storage of storm doors, windows, yard furniture and other large objects is possible when you install the quality Super 30" x 54" stairway.



YOUR HOMES WILL SELL

quicker with this new larger access stairway - buyers can see the advantage!

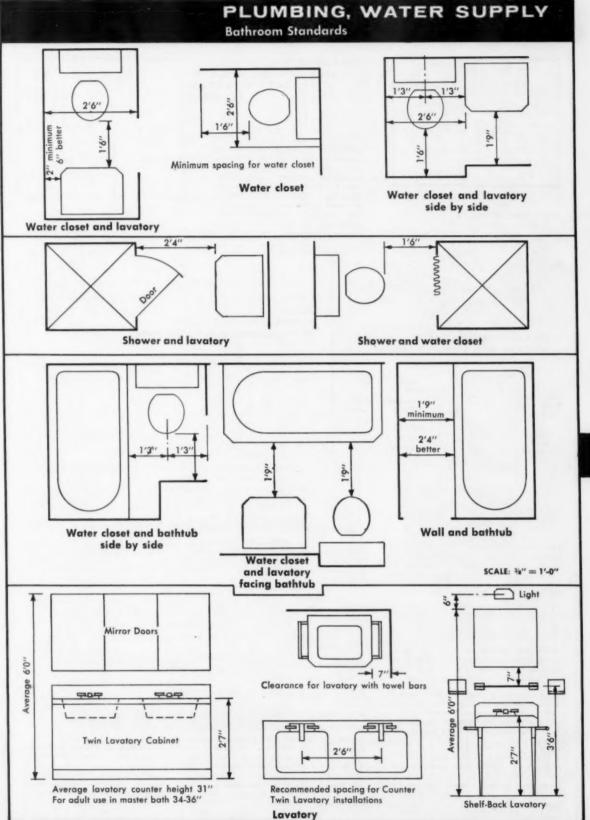
STAIRWAY FOR EVERY PRICED HOME STAIRWAY PRICED HOME

Push Button Electric \$40,000 UP Super Deluxe (30 x 54) ... \$25,000 to \$40,000 Super Simplex (30 x 54) . . . \$12,500 to \$25,000

ALSO AVAILABLE are 14 other sizes and models WRITE for complete details

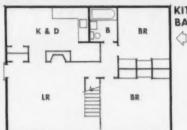


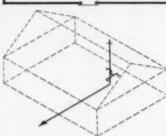
400-AB North First Street- Nashville 7, Tennessee



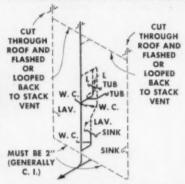
PLUMBING, WATER SUPPLY

Planning for Plumbing Fixtures





TWO BATHROOMS ALIGNED OVER A KITCHEN AND A POWDER ROOM



TWO-STORY HOUSE: A considerable saving is achieved when fixtures are aligned over one another, so that all may discharge to a single stack. Light dotted lines indicate extra piping that would be necessary if they were not aligned.

SOME FURTHER NOTES

- Wherever possible, it is best to locate rooms containing fixtures near the point of entrance of the water and sewer services.
 This will cut the length of service lines.
- Many plans today include compartmented baths; toilet and sink separate from tub and shower, or toilet separate from sink and tub and shower. Piping should be planned so that fixtures drain and are vented with a single stack.
- The suggestions on this page are not meant to be absolute. Local conditions and codes sometimes prevent installations as shown here. However, when they can be used, savings mount — especially in multihome projects.

KITCHEN AND BATH BACK TO BACK

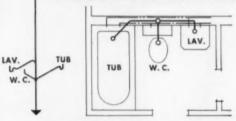
KITCHEN, BATH AND UTILITY ROOM ADJACENT

ONE-FLOOR PLANS: In the one-story basementless house, backing up kitchen and bathroom fixtures (plan, left), will produce the optimum in savings. When this is not practical, back up the rooms (plan, right.) When fixtures are badly separated in the plan, material and labor costs go up, not only for drainage and venting, but for water piping.



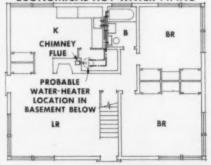


COMPACT FIXTURE LAYOUT
WITH REQUIRED DRAINAGE PIPING



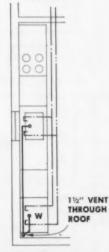
BATHROOM PLANNING: The fixtures in a single room, where practical, should be placed against and discharge toward, the same wall.

WATER-HEATER AND CHIMNEY WELL LOCATED FOR ECONOMICAL HOT-WATER PIPING

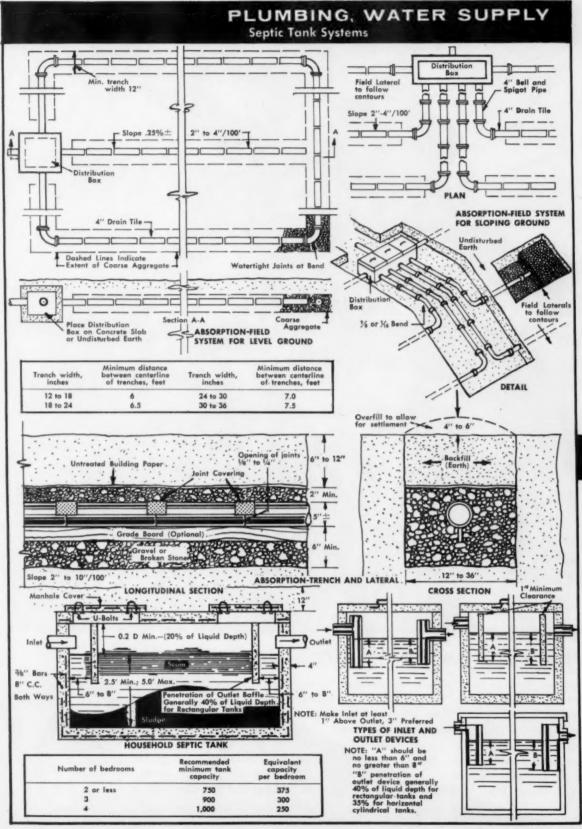


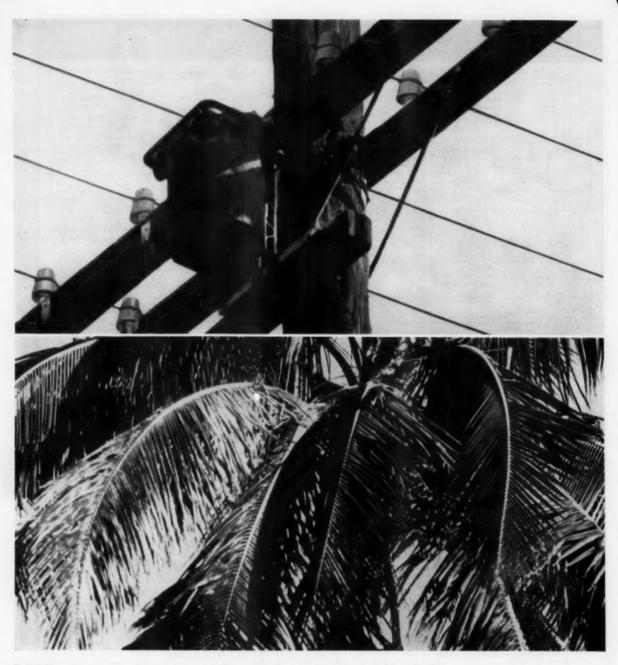
EQUIPMENT LOCATION: When water-heater is located too far from fixtures using hot-water, there is not only extra cost for material and labor to install the piping, but heat loss through the extra run of pipe makes the heater less efficient. Note in the plan above that fireplace was located so that water-heater could be properly vented and still be close to those fixtures needing hot-water.

WELL-LOCATED WASHER



LOCATING CLOTHES WASHERS: Where possible, clothes washers should be placed to take advantage of an already existing vent, and should minimize the installation of extra water piping. The sketch above indicates one way this could be done.





When poles and palms don't mix...

No poles or overhead wires will mar the beauty of Arvida's Royal Palm Yacht & Country Club residential community! With 742 homesites, this distinguished Boca Raton, Florida community is putting all utilities underground. For the job Arvida selected Orangeburg Fibre Conduit—the best known, best-selling Brand in America. And for good reasons: Orangeburg Conduit is lightweight, easy to install. Its self-sealing joints and impermeable walls keep water out for good. Its 100% smooth fibre raceway adds years to cable life. Get all the facts on Orangeburg Fibre Conduit. Write Dept. AB-41 for Catalog 52. **ORANGEBURG** FINITION



Architect's drawing - Arvida home of Dr. and Mrs. John F. Pearl. Architect; Arthur H. Rude, of Ft. Lauderdale.

Orangeburg Fibre Conduit is distributed by Graybar Electric Co. and General Electric Supply Company with branches and stocks in principal cities. ORANGEBURG MANUFACTURING CO., Orangeburg, New York. Division of The Flintkote Company, Manufacturer of America's Broadest Line of Building Materials.



COMO Water Closet. The ultimate in low one-piece styling. Features hush-quiet siphonic action jet plus foolproof Uni-Tilt Valve.

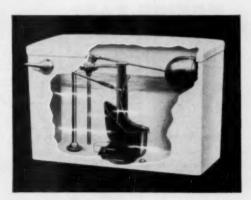
Designed to eliminate handle jiggling forever!

U/R WATER CLOSETS

with exclusive Uni-Tilt® flush valve

Here's the greatest advancement in flushing efficiency in years. With the revolutionary new Uni-Tilt® Flush Valve in U/R Water Closets, your home buyers will never again jiggle the handle . . . never again experience running water nuisance.

Exclusive with Universal-Rundle, the Uni-Tilt's unique pivotal action guarantees a positive flush ... reseats itself perfectly every time. It's been proven 100% foolproof in literally thousands of field tests. Write for U/R's new full-line catalog to Universal-Rundle Corporation, 712 River Rd., New Castle, Pennsylvania.



Universal 🥠 Rundle

THE WORLD'S FINEST PLUMBING FIXTURES FOR 60 YEARS

Plants in Camden, N. J.; New Castle, Pa.; Redlands, Calif.; Hondo, Texas. Export Sales: 115 Broad St., New York, N. Y.

WALLBORNE Water Closet: Distinctive off-the-floor Uni-Closet combination. Has exclusive positive action Uni-Tilt Flush Valve





ALUMACOAT

TOUGH FLEXIBLE AND STRIPPABLE FILM Protect ALUMINUM SASH AND WINDOWS FROM PAINT AND PLASTER DURING CONSTRUCTION. ALSO METALS . DIES . TOOLS . MOLDS . GLASS . CERAMICS . TILES . MARBLE . . . wherever heavy equipment or material must be protected against corrosion, chemicals, chemical fumes, or abrasion - use ALUMACOAT!

COATATUB

Liquid vinyl plastic coat applied with ordinary white wash brush, dries to strong flexible film, peels off. Use thinner to clean brush after applying paint.
Note: one gal. can covers 4-5 tubs.

ALUMACOAT coating is stable, strips cleanly and can be easily applied by conventional industrial spray or painting methods to objects of any size.

PROTECTUB

deluxe cover-made of thick corrugated boxboard with exclusively processed water re-pellent top liner. Custom made to fit your individual tub. Installs in minutes with no expensive cleaning after tiling.

write Dept. ABG

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The industry's most complete "bible"...48 pages of authoritative facts on pool care and operation PLUS descriptions, photos, prices on every item required for pool construction, operation and maintenance.



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REENSBURG

· INDIANA

designed to be built in....

HALL-MACK.

BATHROOM ACCESSORIES

RECESSED

For that extra touch of delightful luxury and comfort in your bathroom, there's nothing to equal the classic styling of Hall-Mack built-in accessories.

Their quiet dignity
blends harmoniously with
any decor...saves precious space...
provides extra convenience for
every member of your family.
The traditional fine quality of
Hall-Mack accessories brings lifetime
beauty to your bathroom...
combines discriminating
concealment with full utility.
Accessories make the bath, so
to be sure to specify Hall-Mack
when you build or remodel.





concealed vanity shelf with sliding mirrors



revolving door hides soap, tumbler, tooth brushes

semi-concealed paper holder . . . hinged hood keeps tissue clean, acts as brake on roll





HALL-MACK COMPANY

1380 W. Washington Blvd., Los Angeles 7, Calif.

Please send your free color booklet on bathroom planning

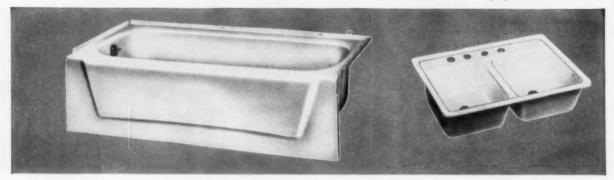
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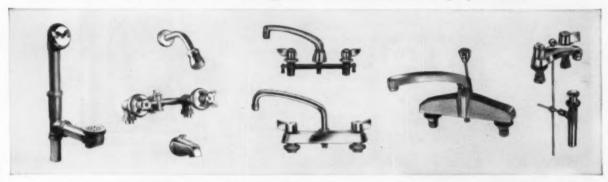
Sold by leading plumbing, tile and hardware dealers everywhere



Gerber offers "expensive-line" sales appeal



in a complete range of moderately priced



fixtures for the "Mighty Middle" home market

The Mighty Middle home market offers you your biggest profit opportunity. Gerber mass produces a complete line of basic plumbing fixtures for this market, eliminating specialty items which are expensive to make and sell. Savings are put back in the form of moderate prices and added features — some exclusive, others found only on more expensive lines.

Builders are selecting Gerber styling, quality and beauty for jobs ranging from moderately priced homes to luxury hotels, motels and similar structures . . . both custom and tract. Select Gerber fixtures in six colors or white, in your building price range. Exclusive features make installation quick and easy.



See our condensed catalog in Sweet's, or write for your copy of Gerber's 94-page full line catalog.



"Plumbing Fixtures for the Mighty Middle" • Gerber Plumbing Fixtures Corp., 232 N. Clark St., Chicago, Illinois 5 Factories: Kokomo, Ind., Woodbridge, N. J., Delphi, Ind., Gadsden, Ala., West Delphi, Ind. • Export Div.: Gerber Int'l. Corp., 500 Green St., Woodbridge, N. J.



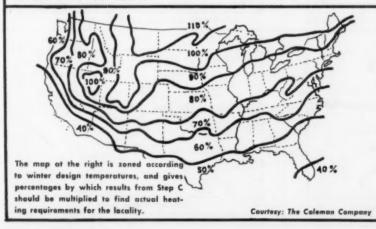
HEATING, COOLING, VENTILATION

Condensed Method of Estimating Heating Requirements

"CONDENSED METHOD" HEAT LOSS FACTORS*

1.	WINDOWS & DOORS	sultiply sq. ft. by:				
g.	Without storm sash	113				
b.	With storm sash	75				
c.	Double ¼" glass with ½" sealed air space between	55				
2.	OUTSIDE WALLS (NET)	Aultiply sq. ft. by:				
a.	SOLID MASONRY—(Brick, stone, etc.) with plaster applied direct to surface of masonry wall.	o inside 45				
b.	AVG. FRAME—Brick Veneer—Wood Siding—Shingles or Stucco—with ing, bldg. paper, studs, lath and plaster	sheath-				
c.	FURRED MASONRY—(Same as 2a with air space between plaster and ϵ wall)					
d.	INSULATED FRAME—Same as 2b—with 1" or less insulation board o	r blanket 20				
e.	HEAVILY INSULATED—Same as 2b with 2" or more insulation	10				
3.	CEILINGS & INSIDE WALLS Multiply sq. ft. b					
a.	CEILING-Plaster on lath or wall-board. No floor above-Attic not	vented 34				
Ь.	Same as 3a—with 2" or more insulation and ventilated attic	12				
c. d.	CEILING of first floor room below unheated room on second floor INSIDE WALL adjacent unheated room	17				
4.	FLOORS	Aultiply sq. ft. by:				
a.	Double wood floor—over cool basement or other enclosed space	15				
b.	Same as 4a-but open space below floor exposed to outside	32				
c.	Concrete floor—Directly on ground. No edge insulation	10				
5.		each sq. ft. of and door area by:				
a.	WINDOWS AND DOORS. Average fit—Not weatherstripped	50				
b.	Average fit—weatherstripped (or equipped with storm sash)	30				
c.	Poor fit—not weatherstripped	140				
d.	Poor fit-Weatherstripped (or equipped with storm sash)	4				
	EXTRA FOR EACH OUTSIDE DOOR	1000				
e.						

*Above factors are approximate heat loss through each sq. ft. of surface with 70° inside and -30° outside.



HOW TO USE THE CONDENSED METHOD HEAT LOSS FACTORS

Quantities of heat are measured in units called British Thermal Units (abbreviated BTU).

Heat is lost from a warm building through all of its surfaces exposed to lower temperature. This is called "transmission losses." Heat is also lost due to wind blowing through crecks around windows and doors. This is called "infiltration losses." Total heat loss of a building is the sum of transmission losses plus infiltration losses.

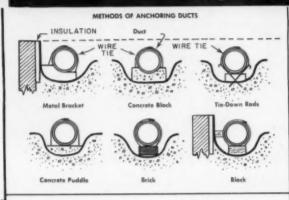
- A The first step is to find how much heat is lost by transmission. Calculate the areas in square feet of all exposed surfaces of the room or building including:
 - Window and outside door area (combined):
 - Net outside wall (gross wall crea minus item 1).
 - Ceiling area (below unheated room or attic space). Inside walls adjacent unheated rooms.
 - Floor area (if space below floor is not heated).

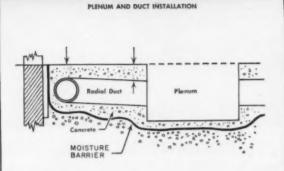
Each of the above areas should then be multiplied by the proper factor from one of the Condensed Method tables.

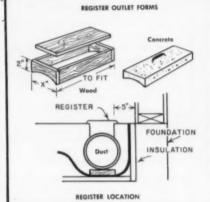
- B Next, estimate infiltration losses. This depends on the amount of cold air blown into the house, which is in turn dependent on the size of the window or door and the width of the crack around it. Simply multiply the area of windows and doors already calculated in Step A by the infiltration factor selected from Table 5. Also, since there is more air leakage through door cracks than through window cracks, allow an additional 1000 BTU for each outside door. Add 3000 BTU for each fireplace.
- Add the infiltration losses (Step B) and the transmission losses through the windows, walls, etc. (Step A) all together. The sum is the heat that would be lost from the room or building—if the temperature difference between inside and outside were 100°. In other words, this is the amount of heat it takes to maintain 70° inside when the outside temperature is 30° below zero, which would occur only in the very coldest sections of the United States.
- D Heating requirements are naturally less where the weather does not get so cold. The average minimum temperature in Dallas, Texas, for example, is only 10° above zero. The "design temperature difference" between inside and outside would be 70° minus 10° equals 60°. Therefore, the heating requirement is only 60/100 or 60% of the amount based on 100° TD.

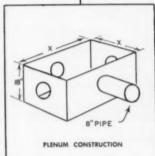


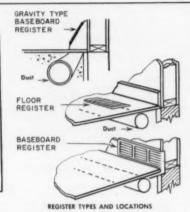
Design Data for Perimeter Heating



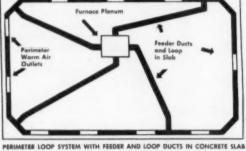


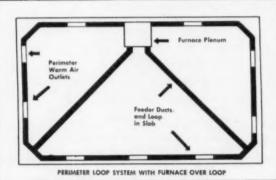


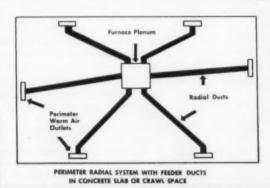


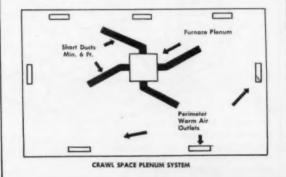


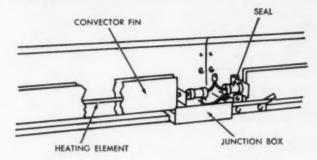




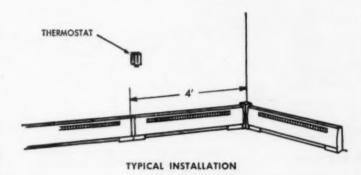








CONNECTION BETWEEN PANELS



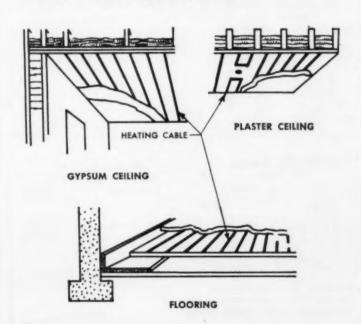
Baseboard-electric heating is basically the same as hot-water baseboard heating. The difference lies in the use of a resistance heating element in place of a hot-water convector.

A heating rod of the same type as used in a cooking range runs the length of the baseboard panel. Convector fins are added to increase the heat transfer area. The heating element operates at "black heat" (it cannot climb above 150 degrees fahrenheit), so it cannot cause injury.

Baseboard panels heat approximately 50 per cent by convection and 50 per cent by radiation. They are controlled by individual room thermostats. Heat is almost instantaneous upon demand.

Courtesy: Hotpoint, Inc.

RADIANT ELECTRIC HEATING BY CABLE



Electric-resistance heating of a home can also be accomplished by means of radiant cables. These are flexible resistance cables buried in the ceiling, floor or walls.

They differ from baseboard-electric heat in that virtually all of their heating is by radiation.

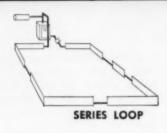
Most common area for radiantheat cables is in the ceiling. Cables are stapled to either lath (if ceiling is plaster), or gypsum board. Then either the plaster or an additional layer of gypsum board is put over the cable, as shown in the drawings.

The amount of cable required will depend upon the design of the house and its geographical location. Control is by individual room thermostats.

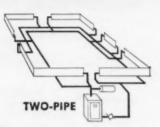
Courtesy: Ceilheat, Inc.



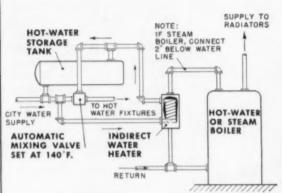
Design Data for Circulating Hot Water Heating



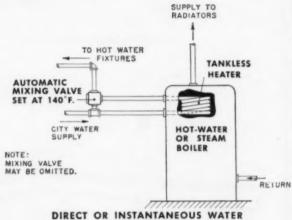




PERIMETER HEATING SYSTEMS

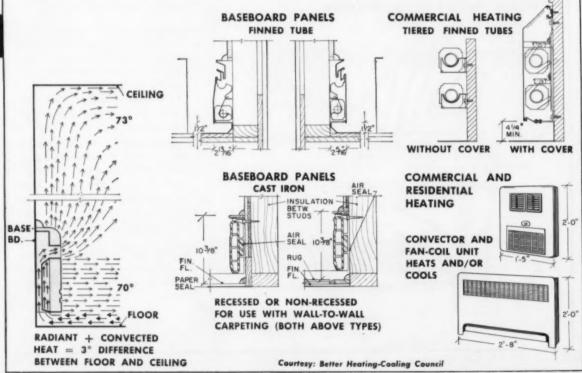


INDIRECT WATER HEATER AND STORAGE TANK



HEATER PLACED IN BOILER

INDIRECT WATER HEATER AND STORAGE TAN



HEATING, COOLING, VENTILATION

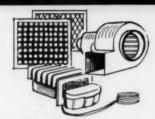
Forced Warm Air Heating



Type of furnace—high boy, low boy, counterflow, or horizontal—depends upon location, space available, and type of system.



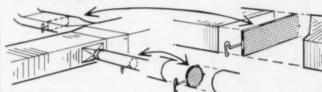
Choose labeled furnace for safety and good performance.

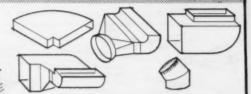


True comfort requires filtered, humidified air circulated gently and evenly.

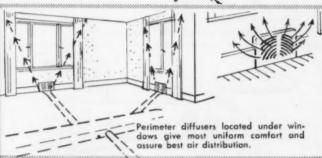
Duct system of engineered design required. Must be installed in accordance with design and proper clearances in accordance with applicable codes.

Install balancing damper in each branch duct. Final adjustment and owner comfort depends on it.

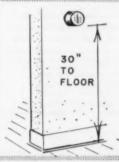




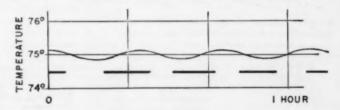
Streamlined fittings needed for free-flowing system. Flexible connectors between furnace and duct system prevent vibration transmission.



Air from perimeter diffusers should fan upward in front of windows. Diffusers may be in floor, baseboard, or low sidewall location.

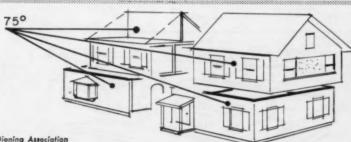


Locate thermostat approximately 30in. from floor. This is "sitting level" at which accupants are most sensitive to air temperature.



Choose sensitive thermostat which will give frequent, short burner cycle for even room temperature.

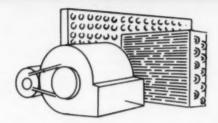
System must be balanced and adjusted to obtain uniform temperatures throughout every room of the house. Comfort Air Circulation adjustment also provides almost constant blower, operation necessary for best balance and continuous, gentle air motion.



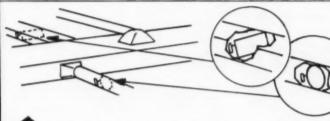
Courtesy: National Warm Air Heating and Air Conditioning Association



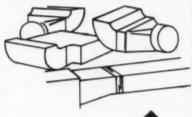
Types of cooling units—unitary, self-contained companion unit, evaporator with remote condenser unit, or heat pump (both heating and cooling)—any of these can be air cooled or water cooled. Select type to fit space and availability of water.



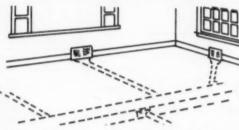
Comfort cooling requires gentle, even circulation of filtered, cooled, and dehumidified air. Fan and filter may be common to both heating and cooling systems.



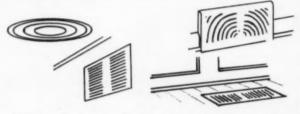
Same features designed into quality duct system for cooling as for heating. Properly engineered, same duct can be used year-round.



Cover all supply ducts and fittings in unconditioned spaces and return lines through attic spaces with good insulation and vapor barrier. All joints of vapor barriers must be sealed.



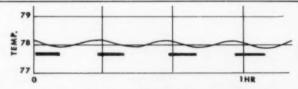
Perimeter diffusers located under windows give most uniform comfort. Locate under every window to assure best air distribution.



Perimeter diffusers are excellent for year-round use. Ceiling diffusers and high side-wall outlets distributing air horizontally are especially good for cooling. Where cooling is involved, highside-wall returns are particularly desirable.



Reverse acting thermostat is required to control the operation of cooling unit. A second thermostat located adjacent to heating thermostat or a combination thermostat may be used for year-round control.



Sensitive thermostat with close differential is desirable for shorter "off-periods." Setting is usually made somewhat higher than heating $(77^{\circ}$ to $80^{\circ})$.



System must be balanced and adjusted in order to obtain uniform temperatures throughout every room of the house. Comfort Air Circulation adjustment also provides almost constant blower operation necessary for best balance and continuous, gentle air mation.

Courtesy: National Warm Air Heating and Air Conditioning Assoc.

2. Little sunshading needed.

3. Overhang can be minimum.

1. Sun exposure is short and intensity is partly. relieved by cool air.

2. Overhang and reflective screens ineffective. 3. Low trees or hill give valuable shade.

Solutions (in order of effectiveness)

A. Sunshading by walls, trellis, lattice, high fences, low trees, etc.

B. Awnings.

1. Sun exposure is short but intensified by high air temperature and low angle.

Solutions (in order of effectiveness)

A. Sunshading by walls, trellis, lattice, high fences, low trees, etc.,

B. Porch or veranda. C. Attached carport or garage.

D. Awnings. E. Minimum Glass Area.

exposure is sustained and intense.

2. Both tall and medium trees are needed for shade.

Solutions (in order of effectiveness)

A. Porch or veranda.

B. Awnings.

C. Reflective screens.

D. Recommended overhang

1. Sun exposure is sustained and intensified by day's hottest air.

2. Both tall and medium trees needed for shade.

Solutions (in order of effectiveness)

A. Attached carport or garage.

B. Porch or veranda.

C. Glass area fully shaded.

D. Storage cabinets in wall.

E. Awnings or reflective screening. F. Avoid slab reflecting heat against wall. 1. Sun is almost averhead and wall absorption is moderate.

2. Exposure is sustained and intense.

Solutions (in order of effectiveness)

A. Recommended overhang.

B. Reflective screens.

C. Large glass area (if used) under

recommended overhang.

D. Awnings.
E. Avoid slabs reflecting heat against wall.

*Since "ideal orientation" can seldom be attained in project planning, it is necessary to minimize the heat gain through the use of sun-shading devices. Orient your house plan in circle. Locate center of house in center of circle. Draw line from center perpendicular to each wall of house and extend line beyond circumference of circle (see example). Read recommended wall treatment and sunshading in the quadrent that each wall faces. Naturally, these suggested sunshading devices apply whether or not you plan to install air conditioning (cooling) equipment.

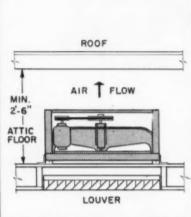
Recommended Roof Overhang*

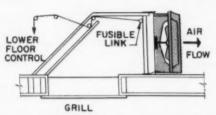
Latitude					Heig	ht of	Eaves	Abov	e Wi	ndow	Sill			
	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"
25°	9	12	14	16	18	21	23	25	27	30	32	34	37	39
30°	12	15	18	21	24	27	30	33	36	39	42	45	48	51
35°	14	18	22	25	29	32	36	40	43	47	50	54	58	61
40°	17	22	26	30	35	39	43	37	52	56	60	65	69	73
45°	20	25	31	36	41	46	51	56	61	66	71	76	82	87
50°	25	31	37	43	50	56	62	68	74	80	87	93	99	105

*Dimensions below staggered line generally not practical as an overhang unless used as porch due to added cost and structural problems. Figures apply to wall facing south.

Data from National Association of Home Builders

NOTE: Space prevents the publishing of cooling load calculator charts. However, several "short methods" of computing cooling loads are available. For one, write to Carrier Corp., Syracuse I, N. Y.; ask for Residential Cooling and Heating Load Calculator (price: \$2.00). For another, write to Aluminum Go. of America, Alicoa Bidg., Pittsburgh 19, Pa.; ask for publication "Comfort Everybody Can Afford."



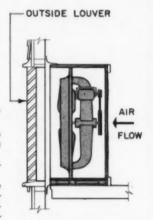


GENERAL INSTALLATION RULES

Where fans are installed to discharge directly to outside they should be located with prevailing winds.

Fans discharging directly into attic should be centrally located if possible.

Flat-roofed buildings without adequate attic space should be provided with a penthouse for fan location. Either vertical or horizontal units may be used. Provide adequate protection against fire in all installations. Various devices are available to insure fan cut-off and closing of intake louvres.



MINIMUM AREAS FOR DISCHARGE OPENING

TYPE OF OPENING	SQUARE FEET PER 1000 CFM FREE AIR FAN DELIVERY
Wood louvres backed with 1/2" hardware cloth, 40% minimum free area	2.27 Sq. Ft. per 1000 CFM
Metal louvres backed with 1/2" hardware cloth. 50% minimum free area	1.82 Sq. Ft. per 1000 CFM
Plain opening covered with 1/2" hardware cloth, 80% minimum free area	1.14 Sq. Ft. per 1000 CFM
Automatic or manual shutters, 90% minimum free area	1.01 Sq. Ft. per 1000 CFM

FAN LOCATIONS

ESTIMATING FAN REQUIREMENTS

The following formula will aid in determining the size of the fan required to adequately ventilate a given area:

*Cu. Ft. Volume of Area _ CFM (Fan Capacity)

**Rate of Air Exchange

*When estimating cubic feet contents, closets and other unoccupied areas may be deducted.

**Select rate of air exchange according to locality from map at the right.

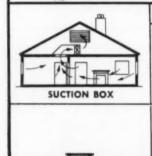
Example:

Volume = 15,000 Cu. Ft.

Desirable air change = 11/2 minutes

15,000 = 10,000 CFM (Fan Capacity) 15





PENTHOUSE







The installation of attic fans generally follows the three methods shown at top of page. In homes with basements it is sometimes practical, and equally effective, to install the fan in a compartment beneath the basement stairs allowing the dis-charge to exhaust directly into the basement proper. Intake and dis-charge louvres should follow the same rules that apply to attic installation. The same precautions should be taken against fire.



VERTICAL DISCHARGE



POKER CONTROL DAMPER

Available in cast iron and steel in sizes from 2 to 8 feet.



SQUARE END DAMPER

Has wide throat and squared ends to provide extra capacity for multiple-faced fireplaces.



ROTARY CONTROL DAMPER Supplied with control at center or near right end. Cast iron only.



Ô CHAIN CONTROL DAMPER Valve plate pivots in center. Available in four sizes.

To help builders and home owners select correct fireplace equipment, Donley Brothers offers its 80-page BOOK OF SUCCESSFUL FIREPLACES containing over 300 illustrations, plans and basic construction ideas.

Thousands of copies of this book are sold every year - PROOF that builders and homeowners recognize Donley's leadership in designing successful heat-producing and smoke-free fireplaces.

IS A DONLEY DAMPER

This buyer acceptance means nationallyadvertised Donley Dampers produce easier sales and greater profits. Buying all their fireplace requirements from one source gives Donley Dealers the added advantages of quantity discounts and lower shipping costs. Send today for complete information.

CLEANOUT DOORS

Available in steel or





ASH DUMPS Feature pivoted doors for poker-control operation. Available in cast iron or steel.

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Company Street. Zone_State_

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OIL AND GAS HEATING UNIT

Space-saving design (3' long x 2' wide x 3' high).
Completely wired. 100% automatic air elimination. Oil-fired units are completely smokeless; feature rumble suppressant design. 100,000 to 3,000,000 BTU/Hr capacities.



Lengths from 2 to 20 feet. Installation is simple and fast; quiet wire slide for 1/2" and 3/4" sizes. I.B.R. approved ratings. Available in chrome, copper-tone, wood-grain, white primer coat.



COMPACT MOTORIZED ZONE CONTROL VALVES

Sealed mercury switches. Completely silent, long life, Positive shut-off valve. Powerful electric motor gear drive. For hot water, steam or chilled water systems. 1/2", 3/4", 1", 11/4", 11/2", 2".



ELECTRIC BASEBOARD RADIATION

Ideal for new construction, remodeling or mobile homes. Low cost. Perfect for zoned heat - just plug it in. No need for pipes, ducts, furnaces or chimneys. Portable models also available. Lengths from 3' to 12' in chrome, copper-tone, wood-grain or white primer coat.



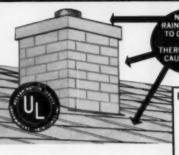
For complete data on any or all of the above EDWARDS products, write today to:



EDWARDS ENGINEERING CORP.

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VITROLINER CHIMNEY DESIGN ENDS HOUSING ROOF STREAK



The secret is in the concealed rain cap

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have no exposed parts to catch dirty

soot that can wash off in the rain and

streak the chimney housing or roof.

Stainless steel tank collects and evapo-

rates moisture at top preventing it from

running down the entire chimney length

as in conventional chimneys with bottom

"T." No other chimney offers this streak

and rainproof protection.

RAIN CAP FOR SOOT THERE'S NOTHING TO CAUSE STREAKING

EXCLUSIVE CONCEALED RAIN CAP AND TOP TANK DESIGN



- No exposed rain cap to collect soot.
 Moisture drips off concealed rain cap in-
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for color literature on Vitroliner Chimneys and details for new housing top and support for all Type "B" Gas Vents.

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NOW SAVE 75% on MATERIAL 80% on LABOR COSTS

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ADDRESS



Mr. Sam Hoff (left), Kansas City, Missouri, says:

"GAS AND ARKLA-SERVEL SUN VALLEY ARE MY CHOICE

... because the quality market demands central air conditioning."

The prediction by housing authorities that homes without central air conditioning will be hard to sell in the future, has almost come true *loday*. "Arkla-Servel Sun Valley All-Year Gas air conditioning in my houses is assurance to my customers that I am offering not only a quality-built house but one that is planned for the future," Builder Hoff says.

Home-buyers look for Gas equipment because they know Gas is dependable, that service expenses will be low and that the local Gas company is solidly behind the quality of these units . . . a plus for builder and user alike.

Nothing cools more cleanly, more comfortably than Gas.

It costs less to cool an *entire house* with Gas than to cool just part of it with individual units. In summer, Gas cools with filtered, de-humidified air. In winter, constantly-circulating warm air keeps rooms healthfully fresh.

Make sure your houses are equipped with Gas appliances . . . the equipment home-buyers look for because they know and trust its performance. Call your Gas company, or write Arkla Air Conditioning Corp., 812 Main Street, Little Rock, Arkansas. There's an Arkla-Servel Sun Valley* All-Year® Gas air conditioner to fit every home.

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The "Buy Words" for '61...

Live modern...for less...with





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For corners, L-shaped rooms, room dividersmany other installation possibilities.

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Needs no special construction! Needs no special construction?
One workman can erect several
a day. Vented by Majestic allmetal chimney. All-metal,
brick-like chimney top housings
in red, tan or off-white. Class
A and B chimneys for furnaces,
water heaters, incinerators,
other appliances.



433 Erie St., Huntington, Ind.

BRAND NAMES DIRECTORY

(Continued from page 168)

NAIRN Congoleum-Nairn Inc NAIRON Congoleum-Nairn Inc NAIRON Congoleum-Nairn Inc NAKORA US Plywood Corp NALCO National Lead Co NALTEX Nalle Plastics Inc NAM-A-LAC Mobile Paint Mfg NARRO WALL Holly-General Co Div Siegler Corp. Co Div Siegler Corp NATCHEZ FLAT ENAMEL

Mobile Paint Mfg Co NATCHEZ LUSTER-NAMEL Mobile Paint Mfg Co NATIONAL Columbia Geneva Div US Steel
NATIONAL Metal Trims Inc
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NORTH-LITE Great Northern
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NOVO Novo Pump & Engine NOVOPLY US Plywood Corp NOVOPLY U S Plywood Corp

California Div NOX-EM-ALL Allied Chemical Corp Barrett Div

(Continued on page 202)

Give your homes the finest winter air conditioning at low cost!

IMPERIAL

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- · Finest controls and deluxe trim
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Clean, quiet, dependable winter air conditioning at its best. Efficient, low cost operation and long, troublefree service. Extreme flexibility for modern gas heating requirements.

Decorator styling and compact size mean attractive, space-saving installation in basement, utility room, family room or playroom. AGA approved for reduced clearance, and installation on combustible floor. Write for details!



BASTIAN-MORLEY CO., INC. (Incorporating H. C. Little Burner Co., Inc.) LA PORTE, INDIANA

Basmor-Little Furnaces, Gas Heaters, Boilers, Water Heaters, Incinerators



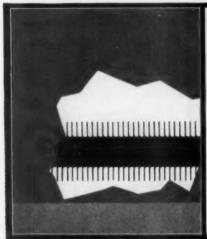
This pint-size package (only 2 ft. tall) easily heats a seven room house. It's



Crane's new budget-priced gas-fired boiler, the Sunnyday-3, that



automatically adjusts its heat output to outdoor weather conditions. Its



incredible efficiency comes from hundreds of fins cast integrally with the boiler



that lap up more heat and transfer it instantly to the water inside. Because



it's 100% factory assembled you can install it in a jiffy, even on wooden floors!

■ Now — you can install hydronic heat, with its distinct advantages, almost as economically as warm air.

■ This amazing Crane Sunnyday-3—compact, uncomplicated—saves time and labor on the job. It's completely assembled and wired at the factory ... in 3 sizes—from 60,000 to 100,000 BTU capacity. ■ A man and a boy can carry it ... install it quickly. Easily. Anywhere. Only 1-inch clearance necessary. The 60,000-BTU Sunnyday-3, for instance, is just 25%" high, 15%" wide. Yet does the big work of regular boilers that bulk

and cost far more. Because it is specially designed, specially engineered for mass-market homes, it helps you bring luxurious, draft-free hydronic heat to home owners at just about the cost of an efficient warmair system. It's silent, a real fuelsaver and responds instantly to thermostat demands. For more details on the revolutionary new Sunnyday-3 Boiler see your regular contractor or your Crane representative. Or write Crane Co., Plumbing-Heating-Air Conditioning Group, Box 780, Johnstown, Pennsylvania.

AT THE HEART OF HOME AND INDUSTRY

CRANE

VALVES AND PIPING ELECTRONIC CONTROLS PLUMBING HEATING • AIR CONDITIONING



Typical homes in Campanelli Brothers' Weathersfield development in Schaumburg, Ill., a suburb of Chicago.





The amazingly compact house heating boiler is concealed behind the grille work of this countertop cabinet, providing added working space in the kitchen. View at left shows a section of development.

B&G Hydro-Flo HEATING HELPS SELL THREE HOMES A DAY!



The outstanding sales power of Hydro-Flo hydronic heating helps account for the remarkable sales performance of Campanelli Brothers' Weathersfield homes in suburban Schaumburg, Ill.

The homes in this huge development, priced at \$15,590 to \$21,500, are selling at the rate of three per day.

The sound judgment of the builders in choosing radiant hydronic heating is obviously paying off. "Radiant heating with its sunlike warmth," said Mr. Al Campanelli, one of the builders, "can't be equalled for genuine comfort and cleaner, quieter operation."

The B&G Hydro-Flo system operates with unrivalled economy—and further offers the optional advantages of plentiful, low-cost year 'round hot faucet water and snow-melting. These are the reasons why progressive builders are finding Hydro-Flo Heating a clinching sales feature.



Hydro-Flo SYSTEM BELL & GOSSETT

COMPANY

Dept. GP-11, Morton Grove, Illinois

Canadian Licensee: S. A. Armstrong, Ltd., 1400 O'Connor Drive, Toronto 16, Ontario

system.





GM-DELCO'S TRIPLE SALES OFFENSIVE

1 A HOT, NEW GAS-FURNACE LINE

The new 1961 GM-Delco upflow models for perimeter, basement or closet applications come in units up to 190,000 BTU input capacity. For homes without basements, the GM-Delco Counterflow Model is ideal. And for compact situations, you can't top the GM-Delco Slim, Horizontal Gas Furnace. They all have the stamp of GM Reliability—your assurance of better performance and fewer "call-backs."

2 SOLID NATIONAL ADVERTISING THAT PRE-SELLS THE GM-DELCO NAME

Your prime home-buying prospects will be exposed to a broad schedule of national GM-Delco advertising, carefully designed to promote the GM-Delco brand name. This advertising makes the most of the inherent value in the General Motors name—and helps you sell homes. Buyers identify your GM-Delco installation in a model with quality.

3 A FLEXIBLE, LOCAL MERCHANDISING PACKAGE TO FIT YOUR MARKET

GM-Delco brings you a hot new merchandising package for maximum impact on your individual market. You can pick and choose from the best in billboard signs, local radio and TV scripts, 1000 and 500-line newspaper ads, brochures and tack-up signs for models. Pinpoint and apply features of this flexible GM-Delco program to your local sales objectives.

The brand name that identifies your homes with Quality M Delco 365

DELCO APPLIANCE DIVISION, GENERAL MOTORS CORPORATION. ROCHESTER 1. N.Y.

Flameless ELECTRIC HEAT

Belectromode

CHOICE OF TODAY'S HOMEOWNERS



Electromode Heaters are the builders' choice, too! They give you complete freedom of design because you can choose Electromode in a model best suited to the specific need of each room—and each room has its own thermostat. Electromode Electric Heating in your plans is truly the modern way to build. No need for ducts, chimney, pipes, nor even a furnace, to waste space.

ELECTROMODE LOW-LEVEL BASEBOARD HEATERS

Radiant warmth surrounds the room, thermostatically controlled at the temperature desired. Slim, modern style units fit snugly to wall. Easy to install and completely flexible to room size and design.



FAN-CIRCULATED HEAT CLEAN • CAREFREE • SAFE

These heaters have the Electromode exclusive Safety Grid heating element. All electric wires are insulated, embedded and completely sealed inside a finned aluminum casting. Assures positive protection from fire, shock or burn. Built-in power shut off Safety Switch automatically prevents overheating.



BATHROOM

DOWN-FLO HEATER FOR BIG ROOMS

Has the Electromode exclusive Down-flo principle, assuring warmth at floor level. Just right for cold hall-ways, recreation rooms, and other hard-to-heat areas.

Ideal for immediate, economical heat in bathroom or small room. Smart styling adds to bathroom beauty. Chrome or white enamel finish.



ELECTROMODE RESIDENTIAL QUARTZONE HEATER

Radiates gentle, sunlike warmth, making this model especially suited to the bathroom. No drafts, no overheating of the entire room. It warms people and objects, not the air. Also useful for porches and small spot heating in large unheated areas.

COMPLETE

T.Electromode

LINI

includes every type of electric heating available for home application. In addition to those illustrated, you have a big choice of many other models.

My My

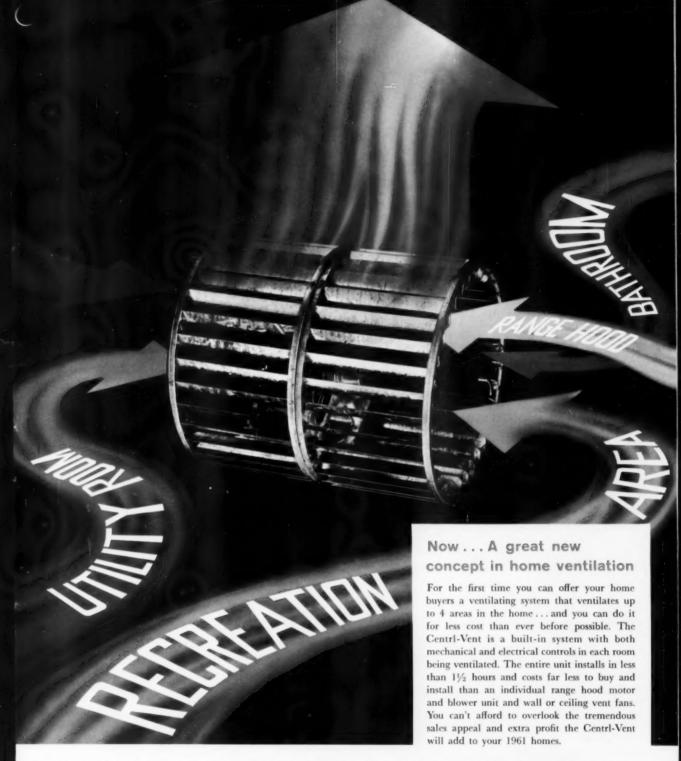
For full details on Complete Electromode Line, write Dept. AB-61

• Electromode

Division of Commercial Controls Corporation

ROCHESTER 3, NEW YORK

AMERICAN BUILDER



SAVE DOLLARS* ON EVERY HOME AND STILL OFFER MORE VALUE!

GET ALL THE FACTS*...

send for the FREE Lau product file today!



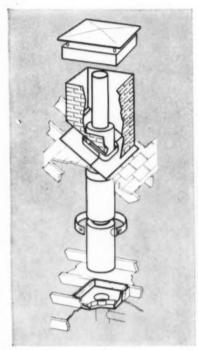
Home Comfort



THE LAU BLOWER COMPANY 2027 Home Ave. • Dayton 7, Ohio

Lau . . . manufacturers of residential attic fans / commercial-industrial ventilating fans / range hoods / central ventilating systems / humidifiers / bathroom cabinets / air conditioning blowers

Van-Packer factory-built chimney meets needs of every home price range, is attractive, easy to install

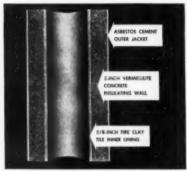


Cut-away view shows components and installation details that make the Van-Packer fire-clay tile-lined chimney the most rugged, durable factory-built chimney you can put in your homes. New installation standards now provide for low cost, lightweight fire-clay tile "R" section above the roof. This results in easier handling and lower-than-ever installation costs. The Van-Packer Chimney comes completely packaged in labeled cartons, with everything provided including flashing and joint cement. One man can put up a Van-Packer quickly and easily, without special tools or skills.



Van-Packer chimneys are UL-listed for all fuels and all home heating plants, are safe for incinerators. Here's an attractive chimney suitable even for the higher priced homes you build. The Van-Packer chimney with deluxe asbestos-cement housing looks good on any home. Housing panels have an embossed brick design with indented "mortar lines" that look natural, in your choice of red, buff, gray, or white brick colors.

For durability, Van-Packer offers this rugged flue construction:



The fire clay tile liner won't corrode, is acidproof, and won't dent or flake off. Flue sections are joined with acidproof cement and are secured with snap-lock drawbands to form a rigid, rustproof unit that outlasts other factory-built chimney flues.

VanPacker flues withstand temperatures up to 2100°F and are widely approved by building codes. Distributed nationally, they are available for immediate delivery anywhere. See "Chimneys — Prefabricated" in the Yellow Pages, or write for Bulletin RS-1.



New embossed metal housing now available

In addition to the asbestos-cement housing, Van-Packer now offers a rugged new metal housing with brick-embossed design, in red, buff, or white brick colors.

The new Van-Packer metal housing is ideal for homes in medium and lower price ranges. It is quickly, easily installed — paring your labor costs to the bone. Available in all standard sizes for Van-Packer tile-lined chimneys or masonry gas vents.



Van-Packer Chimney is safe for incinerators

The Van-Packer all-fuel chimney is ideal for service with incinerators, and can be quickly and easily installed. It is UL-listed to withstand temperatures up to 2100°F — completely safe for incinerators. The high draft provided by a Van-Packer assures complete burning of refuse, and the fire-clay tile liner easily withstands the sudden heat shocks encountered in incinerator service.



VAN-PACKER,

The Flintkote Company

Manufacturers of Diversified Products for Home and Industry 30 Rockefeller Plaza, New York 20, N. Y. Phone: PLaza 7-5500

In the West: Pioneer Division, The Flintkote Company, P. O. Box 2218, Terminal Annex, Los Angeles, Calif.

In Toronto, Ontario: The Flintkote Company of Canada, Ltd.

NEW

FROM

bryant



for the builder who wants fresh, modern styling, Bryant quality, low in-place cost

TWO NEW LINES

STYLED RAYMOND LOEWY

New, clean-lined styling and smart, new color combinations to go with your modern interiors — they say "quality" at first glance.

393 SERIES — Top styling, eye appeal and quality in a furnace priced to give you a low in-place cost.

395 SERIES — The last word in a deluxe furnace for the buyer who expects the best — which you can now give him for only a few dollars more.





Both of Bryant's new gas-fired furnaces are in local stocks ready for delivery. Call your Bryant dealer, distributor or factory branch and arrange to see these beautiful furnaces, and compare them feature-forfeature, dollar-for-dollar with what you are now using.

EXTRA SALES FEATURE. These furnaces feature extra quiet blowers with the capacity to handle air conditioning.

"MORE FOR THE MONEY" in a Bryant furnace than ever before.

NEW FULL LINE.. You'll never be stuck for the right size and model. Both series come in upflow, downflow and regular basement models. Capacities: Series 393, 80,000 Btu to 150,000 Btu; Series 395, 80,000 Btu to 400,000 Btu.

SERVICE GEARED TO YOUR NEEDS

Your Bryant dealer is ready to work with you all the way from system layout to owner follow-up. He is factory-trained and backed up by the distributor or factory branch. He's set up to save you money, time and trouble.

ASK YOUR DEALER ABOUT BRYANT'S

NEW BUILDER PROPOSITION a new merchandising concept to help you sell homes.

HOME COMFORT CORE

HEATS • COOLS • FILTERS • DEHUMIDIFIES • CIRCULATES



Now Bryant's Home Merchandising Program turns an unexploited feature of your homes into a dramatic selling advantage for you.

The furnace, air conditioner and water heater no longer "just stand there". We make them "sell" for you. Promoted nationally and locally as the Bryant Home Comfort Core they give you a new competitive selling edge — and it doesn't cost you a nickel more!

Why not call your Bryant dealer, distributor or factory branch today. Get the story. You have nothing to lose . . . everything to gain.

BRYANT MANUFACTURING COMPANY · Indianapolis, Indiana

"PREFAB" GLASS FIBER DUCT INSTALLS ALMOST TWICE AS FAST AS INSULATED METAL DUCTS

G-B Duct provides "built-in" insulating and noise absorbing benefits

As much as 50% of installation time can be saved by using G-B Duct. This unique air handling system is completely prefabricated at the factory. Six-foot sections arrive on the job site ready to be installed. One glance at the photographs on this page shows you just how simply and quickly G-B Duct can be assembled. There's no pre-assembly work, no scoring, no folding. Sections fit snugly and swiftly together with standard sheet metal fittings and vapor barrier tape. Elbows and T fittings are also easily fabricated with a knife and factory-supplied templates.

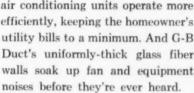
Because G-B Duct is made entirely of glass fiber insulation, maximum protection against heat loss or gain and sound absorption are "built-in" features. That means heating and air conditioning units operate more efficiently, keeping the homeowner's utility bills to a minimum. And G-B Duct's uniformly-thick glass fiber walls soak up fan and equipment noises before they're ever heard.

G-B Duct carries an Underwriters' Laboratories label as an air conditioning and heating duct, and therefore meets FHA requirements. G-B Duct is encased in an air-tight. waterproof vapor barrier sleeve for positive protection against sweating and moisture condensation. As permanent as glass itself, it will not rust, corrode, rot, or deteriorate in any way.

For more information, write today.

Gustin-Bacon m_y a**gb**ö

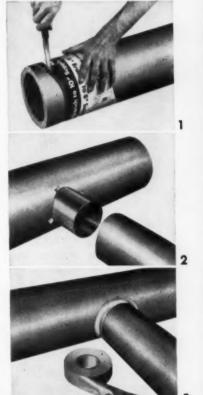
204 W. 10th St. Kansas City, Mo.



INSTALLING

STRAIGHT RUNS

Simply insert metal sleeve (above) at joint, butt two sections of duct together and seal with vapor barrier tape.

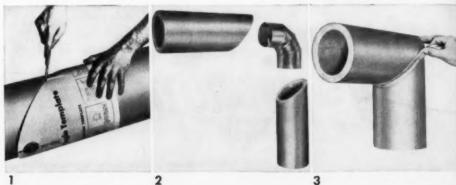


INSTALLING RUN-OUTS

1-Using factory-supplied template, cut one end of run-out to fit flush against side of main duct. 2-Cut the side of main duct, using sheet metal fitting as a template and insert metal sleeve. 3-Slip run-out onto locked metal sleeve until flush against main duct, then wrap tightly with vapor barrier tape.



1-G-B DUCT is easily cut at 45° angle with factory-supplied template or saw and miter. 2-Insert right angle metal elbow into mitered ends of duct. 3-Push tightly together and seal with vapor barrier tape.



Fans designed with the BUILDER in mind...



New Model EK Bar-Brook Attic Fan. Practical, economy model for fast, easy installation in homes with low pitched roofs and truss construction. Automatic aluminum shutter assembly fits almost any location - mounts smoothly in ceiling opening. Flanges cover raw edges. 3 blade sizes: 30", 36", 42".

Model AVP Package Unit - Bar-Brook* Breezebuilder* Attic Fan. Fan, motor, shutter, fuse link completely factory assembled. 3 sizes

for 31", 36", 42" ceiling opening. Pre-cut ceiling trim. Takes only minutes to install!



Write for catalog showing full line of Bar-Brook Fans, Shutters, and Year 'Round Air Conditioning Systems.

BAR-BROOK MFG. CO., INC., Box 6638, Shreveport, La. • Fan makers for 29 years • *T.M. Reg. U.S. Pat. Off.

when the heat's on



SPECIFY THE BOILER YOU CAN BUILD ON

When you need the best . . . at a price you can

When you need the best . . . at a price you can build on . . specify Hydrotherm!

Gas fired Hydrotherms will assure years of heating comfort for your homes, regardless of size or type. And the industry's widest choice of sizes (eleven — from 50,000 to 300,000 BTU/Hr input) gives you "custom" size selection. Hydrotherms pass through standard doors, take little floor space are simple and early to install

Hydrotenia pass drough stated door, and little floor space, are simple and easy to install. Uniquely engineered horizontal boiler sections mean maximum fuel savings. And Hydrotherms are guaranteed for 25 years.

WRITE FOR BULLETIN #HY-F100 TODAY!

Also available: Packaged Hydrotherms, factory Assembled with all hydronic accessories for even greater installation saving . . . and for heavy duty industrial applications (capacities from 360,000 to 3,600,000 BTU/Hr) ask about Hydrotherm MULTI-TEMPS.

be sure

BRAND NAMES DIRECTORY

(Continued from page 192)

NU-ART Macklanburg-Duncan NU-BRICK Protective Products NU-CALK Macklanburg-Duncan NU-GARD Macklanburg-Duncan NU-GLAZE

Macklanburg-Duncan Co NU-HUE Martin-Senour Co NU-LAP Protective Products Co NU-LUME Macklanburg-Duncan NU-PREST HARDBOARD

Midwest Plywood Co NU-RAIL Hollaender Mfg Co NU-WALL Nu-Wall Mfg Co NU-WAY Macklanburg-Duncan NU-WOOD Wood Conversion NUCRETOR Air Placement Equipment Co NUCUT Heller Tool Co NUMBER SIX Zegers Inc

NUMETAL Macklanburg-Duncan Co

Mackianburg-Duncan Co NUSAN Modern Swimming Pool NYLO Metzgar Conveyor Co NYRACORD TWEED TILE American Mat Corp O-E Arro Expansion Bolt Co. O-T OPEN TRUSS Republic

Steel Corp Truscon Div OAKWELD Harris Mfg Co OBSERVER Blonder-Tongue Laboratories Inc OHIO AUTOCLAVED Ohio

OHIO EVER-READY Ohio Lime OHIO EVER-READY OND LIME CO OHIO WHITE Ohio Lime Co OILO-MATIC Williams Oil-O-Matic Heating OIL SUPER Williamson Co

OILMASTER Thatcher Furnace OILSAVER Williamson Co OILTONE Scidlitz Paint &

Varnish Co OLD VIRGINIA WHITE Cabot Samuel Inc OLEAN Gladding McBean & Co OLSON LINE Olson Mfg Co OLYMPIA General Metalcraft Inc Olympia Div OMARK Omark Industries Inc

OMARK-GRAHAM STUD DRIVER Omark Industries

OMEGA Tilley John S Ladders ON-GARD Macklanburg-Duncan 100 PLUS Stanley Tools
OPEN SESAME Lancaster Pump & Mfg Co Inc ORANGE Virginia Metal

Products Inc **ORIENTAL** United States

OSMOPLASTIC Osmose Wood Preserving Co of America
OSMOSALTS Osmose Wood
Preserving Co of America
OTC Owatonna Tool Co

OVERDOORS Barber Colman OXFORD Oxford Tile Co Div OZAN Ozan Lumber Co OZARK Ozark Oak Flooring Co P A R Protection Products P G 1013 Permagile Corp P & Pass & Seymour Inc
PACEMAKER Elkay Mfg Co
PACEMAKER Harloc Products
PACEMAKER Hubbell Harvey PACEMAKER McQuay Inc PACEMAKER Wakefield Co PACER Aluminum Industries PACER Sequoia Mfg Co

PACESETTER Beautycraft Kirchens Div PACIFIC Pacific Brass PACKET Crane Co PAD Producers & Distributors PAGEANT Insulite Div PAINTGUN Root-Lowell Corp

PAL-O-PAK Pal-O-Pak Insulation Co Inc
PALCO Pacific Lumber Co

PALCO Pratt & Lambert Inc PALKYD Pratt & Lambert Inc.

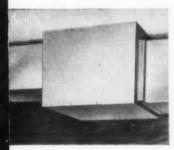
(Continued on page 206)



1-HEAT AND COOL any home with this TRANE Climate Changer! (Downflow unit for basementless homes shown.) Oil or gas-fired heating units in sizes and types for any home, in any climate. Matched compressor unit located outside.

2-OFFER OPTIONAL COOLING! Install just the heating unit now-point out to your customer he may easily add the cooling (lower section) later. Uses same ductwork; and units are matched for easy installation, peak performance.

Trane gives you 4 ways to heat, cool-or both-while holding building costs down!



3-SEPARATE COOLING SYSTEM—not connected with heating system. Fan-coil unit is ideal for use with TRANE Baseboard heating or other types of wet heat, or with electric resistance heating. Tucks away in attic, crawl space, basement, utility room.

4 - NEW HEAT PUMP HEATS, COOLS! Air-to-air type heat pump uses no water; heats and cools entire home. Operates on electricity; no chimney, no flue needed! Same ductwork system delivers heating and cooling throughout entire home.



THESE new TRANE Climate Changer units give you a wide choice of systems for heating, cooling—or both. And it's quality air conditioning, from TRANE, leaders in big building systems. It's matched equipment, built together to work together. Remember: the name TRANE on your heating-cooling system helps mark yours as a quality home because TRANE is nationally advertised, nationally recognized for its quality air conditioning equipment. And every TRANE system is carefully installed by a selected air conditioning contractor. For complete facts, just call your nearby TRANE Sales Office, listed in the Yellow Pages under "Air Conditioning." Or write TRANE, La Crosse, Wisconsin.

For any air condition, turn to

TRANE

MANUFACTURING ENGINEERS OF AIR CONDITIONING, HEATING, VENTILATING AND HEAT TRANSFER EQUIPMENT.

THE TRANE COMPANY, LA CROSSE, WIS. . SCRANTON MFG. DIV. SCRANTON PA . CLARKSVILLE MFG. DIV.,
CLARKSVILLE, TENN. . TRANE COMPANY OF CANADA, LIMITED, TORONTO . 100 U. S. AND 19 CANADIAN OFFICES

9 reasons builders are choosing furnaces by



Hi-Boy Model

Counter-Flow Model

WILLIAMSON

- 7 Dependable . . . No "call-backs"
- 2 Factory assembled, wired, and fire tested
- 3 10 year guarantee to the home buyer
- 4 Low cost for high quality . . . Brand name
- 5 Minimum floor space requirements
- 6 AGA seal of approval on gas units U.L. Approval available on oil units
- 7 Beautiful Seal-Tite® cabinet design
- 8 Designed for Williamson air conditioning
- 9 Full line of models and sizes to fit any plan

PLUS . . . a line of distinction . . .

THE GASAVER FURNACE

. . an exclusive feature for your exclusive homes.

Indoor-outdoor thermostatic control . . . twostage burner automatically modulates to counterbalance changes in outdoor temperature. 20 year

For Oil areas . . . Give consideration to the finest - Williamson Oilsaver for your finest homes.

 -	manian.	 222	201/1	-

	DEPTH (inches)		HEIGHT (inche	s)
BTU	HI-BOY OR COUNTER- FLOW	LO-BOY	HI-BOY	LO-BOY	COUNTER- FLOW
75,000°†	25	41	62	443/4	65
100,000 †	29	47	62	441/4	65
125,000	32	52	62	441/4	65
150,000	35	55	62	443/4	65
175,000	401/2	-	67		70
200,000	451/2	-	67	-	70

*Not available for oil feet †Available with direct drive blower

THE WILLIAMSON COMPANY

3330-W-16, Madison Rd., Cincinnati 9, Ohio

Please send me full details on your builder-designed furnaces.

Also send details on the new . . .

☐ "Gasaver" furnaces ☐ "Oilsaver" furnaces

Name

Address

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City______Zone___State____

cool an entire house

for about 1/5 the cost of air conditioning



R&M-Hunter Package Attic Fan installs in a breeze



2-SPEED OPERATION FOR NIGHT/DAY USE—This low-cost home ventilating system gives cool comfort around the clock, in hot or warm weather. Refreshing breezes are pulled in and hot, sticky air forced out. Operating costs are low, and trouble-free performance is backed by R&M-Hunter's 80 years in manufacturing quality electrical equipment.

R&M-HUNTER ATTIC FANS

R&M-Hunter makes a complete line of Cooling Fans, Ventilating Fans, and Electric Heating Equipment.



Automatic ceiling shutters install easily, too. Metal frame is screw-fastened and trim covers edges of ceiling opening. No finishing needed,

FEATURES

- · Two-speed motors (single speed optional)
- Certified air deliveries from 5200 to 10550 cfm.
- Sound-tested ball bearings on fan and motor
- Heavy-duty motor, rubber mounted
 Built-in thermal overload protection
- · Fan guaranteed 5 years; motor and shutter, 1 year

MAIL TODAY---

Hunter Division—Robbins & Myers, Inc. 2866 Frisco, Memphis 14, Tennessee Please send data on the R&M-Hunter Package Attic Fan to:

Name____

Company

BENNETT **BUILDS 'EM** BETTER...



CIRCULATING FIREPLACES ...

Benefire forms take all the long steps and the wrong steps out of fireplace con-struction - saves hours of time, nearly a ton of material — and gives a guaranteed, smoke-free result!



CONVENTIONAL FIREPLACES.

The Bennett 10" Throat Damper is sized and shaped to save mason's timehas full-rated size with increased funnelling height that gives better operation, Rotory or poker control.



UNUSUAL FIREPLACES ...

Bennett-pioneered for projecting corner fireplaces, 2-sided or 3-sided openings the Beneform Universal Damper provides lower construction costs, efficient smoke-free operation. Reinforced lintel flange will carry any masonry load.

YOUR BUILDING MATERIALS DEALER can help you solve any fireplace construction problem with the complete BENNETT And be sure to ask about extra profit opportunities in Flexscreen® Fireplace Curtains and decorative accessories!



BRAND NAMES DIRECTORY

(Continued from page 202)

PALLET-PAK Fair D L Lumber PALOS VERDES Palos Verdes Stone Dept Great Lakes Carbon PAN-A-LITE Arnold Altex PANATONE Baldwin-Fhret-Hill PANAVIEW Glide Windows Inc PANCAKE Wiremold Co. PANEL-LIFT DOOR Panel-Lift PANEL-TRACK Embassy Steel
PANEL-VENT Owens-Illinois
PANELAIR Payne Co PANELBILD United States PANELBILD SYSTEMS

United States Plywood Corp PANELFOLD Panelfold Doors PANELGROOVE Masonite Corp. PANELOK Masonite Corp PANELRAY Day & Night PANELRAY Day & Night
PANELSTONE Ruberoid Co
PANELWOOD Masonite Corp
PANELYTE St Regis Paper Co
PANLAM Polyplastex United
PAR-TILE Physood Service Inc
PAR WOOD Physood Service PARA-HUE Sapolin Paints Inc PARA-PLASTIC Servicised

PARADOME Holophane Co Inc PARAFLO Dravo Corp PARAGON Allied Chemical PARALLEL-O-GREY Libbey-Owens-Ford Glass Co PARALLEL-O-PLATE Libbey-

Owens-Ford Glass Co
PARBOND Parr Paint & Color
PARFLAKE Structural Products
PARFLEX Parr Paint & Color PARKWOOD Parkwood PARMASTIC Parr Paint

PAROID Bird & Son Inc PARQUET WOODTILE Robbins Flooring Co
PASADOR Farley & Loctscher
PATCH PASTE Schalk Chemical PATHFINDER LIGHTS

PATIO MAGIC Daryl Products PATIO RAMA Daryl Products
PATRICIAN Tilley John S PATHO RAMA Daily Froducts
PATHICIAN Tilley John S
PATTEN-COMFORT Patten JV
PAYLOADER Hough Frank Co
PAYMOVER Hough Frank Co
PAYMOVER Hough Frank Co PC GLASS BLOCK Pittsburgh

Corning Corp
PEARLITE Lustro Tile Mfg Co
PEARLITE Pease Woodwork Co
PEE GEE Devoe & Raynolds Co
PEERLESS Peerless Heater Co
PEERLESS Tucker Duck
PEERLESS Tucker Duck PEG-BOARD Masonite Corp PELLA Relscreen Co PEN-FAST O'Brien Corp PEN-TAST O BITCH Corp PEN-O-LASTIC, McGuffie Co, PEN-SHEEN O'Brien Corp PENCHLOR Pennsalt Chemicals PENCHROME O'Brien Corp PENCO Alan Wood Steel C PENCO McGuffie Co PENETRAY Penetray Corp PENETREM Tremco Mfg Co PENGLASS Pennsylvania Wire PENGUIN Peterson Window PENMETAL Penn Metal Co PENN CRETE Penn Crete Prods PENN-TONE Penn Crete Prods PENNTROWEL Pennsalt PENNVERNON Pittsburgh

Plate Glass Co PENPLY Peninsula Plywood PENTA STAIN Wood Treating PENTEX Penn Crete Prods Co PEOPLE HEATER

PERCHLORON Pennsalt PERF-A-TAPE United States

PERFEC-SEAL Reese Metal PERFECTION Arkansas Oak PERFECTION Lufkin Rule Co PERFECTO Green A P Fire PERFO-ROUND Cascades PERFO-SQUARE Cascades

Plywood Corp.
PERFORALL Woodall Industries Inc
PERFUSAIRE Auer Register Co
PERIMAHEAT Young Radiator
PERIMETER INSULATION G & W H Inc PERIMSUL

Baldwin-Ehret-Hill 1 C PERM-ALIGN Cummins PERM-ALIGN Cummins
Portable Tools Div
PERM-NENT Asphalt Corp
PERM-SEAL Asphalt Corp
PERMA BED Biddle Co
PERMA-CUSHION Robbins

Flooring Co PERMA JACKS Perma-Jack PERMA-GARD Gilbert & PERMA-GARD GIBERT &
Bennett Mig Co
PERMA GLAZE Biddle Co
PERMA-GRIT Skil Corp
PERMA-LOK Logan-Long Co
PERMA-NETTING Gilbert &

Bennett Mfg Co
PERMA-POST Perma-Jack Corp
PERMA-SPUN Logan-Long Co
PERMA WALL Conver Steel PERMA-WALL Logan-Long Co PERMACOUSTIC

Johns-Manville Corp PERMAGARD United States PERMAGILE COMPOUNDS

Permagile Corp
PERMAGEAS Smith A O Corp. PERMAGLOSS Thomas Moulding Floor Co Inc PERMALINE Line Material

PERMALITE Great Lakes PERMALUME Shower Door Co PERMAPLY United States Plywood Corp

PERMATAB Logan-Long Co PERMATITE Durkee-Atwood PERMATITE General Bronze PERMATONE

Johns-Manville Corp
PERMATOP Permagile Corp
PERMITE Permiteco Inc
PERMO DIP Wilbur & Williams PERSIANS Wetsontown Brick
PET Partable Electric Tools Inc
PETCO Petterson J C Corp
PETER PUTTERS Schalk

Chemical Co
PETROCOTE Thilmany Pulp
PHENIX QUALITY Phenix Mfg PHILGAS Suburban Propane PIGSKIN Industrial Canvas PILOT Fiat Metal Mfg Co PILOT Johns-Manville Corp PIN-UP Holly-General Co Div PINCOR Pioneer Gen E Motor PINE CRAFT White Pine Sash PINHOLATH Bestwall Gypsum PIONEER Pioneer Gen E Motor PIONEER Pioneer Plastics Corp PIONITE Pioneer Plastics Corp PITTSBURGH LOCK

HAMMER Milwaukee Elec PLACCO Borden Chemical Co PLANET Johns-Manville Corp PLANKED GOLDEN

HEMLOCK Simpson Timber PLANKTEX United States PLANKWELD United States

Plywood Corp
PLASGON Cabot Samuel Inc
PLAST-O-MAT Warp Brothers
PLASTEEL Plasteel Products PLASTEELITE Plasteel

PLASTER GUARD Casings Inc PLASTER PATCH United PLASTER-WELD Larsen Products Corp
PLASTI-GLAZE Plastic Products

(Continued on page 232)

the quality tells . . . the quality sells . . .

ANITROL

JANISME

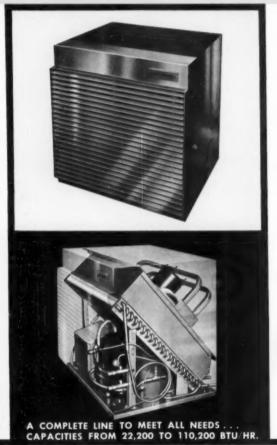
AIR-COOLED

Hallmark of Quality in Luxury Comfort

UNCHALLENGED COOLING PERFORMANCE...

in all-new JANIIROL

52 SERIES CONDENSING UNITS



Outwardly beautiful and pleasing to the eye, inwardly rugged and powerful, new Janitrol 52 Series provides low-cost central cooling with matchless reliability and efficiency. Here are some of the many ways new Janitrol 52 Series condensing units are demonstrating their excellence...

In Performance... condensing coils have greater area to dissipate more heat and to provide higher efficiency. Operation with outside temperatures as high as 125°F.

In Styling . . . modern, simple and functional cabinet that will be in the best of taste in any landscape plan. Finished in beautiful, durable, weather-resistant, automotive-type enamel.

In Economy... powerful, top-mounted fan draws in quantities of cooler ground air over the condensing coil, which is shaded from the sun's heat by louvers.

In Quietness . . . compressor and fan are unusually quiet in operation. Cabinet is acoustically treated with a weatherproof, sound-absorbent material.

In Safety . . . upflow exhaust protects nearby plants from hot blasts . . . enclosing grilles safeguard pets and children.

In Service . . . all components are easily accessible. Service panels may be removed without affecting operation, to make checks while unit is in full operation.



A.R.I. CERTIFIED

Full A.R.I. certification is your assurance this equipment meets or exceeds standards of the Air Conditioning and Refrigeration Institute. A five-year written warranty backs up your choice.



EXCLUSIVE BUILDERS MODEL HOME PROMOTION

DOUBLES YOUR SALES POWER!

JANITROL HEATING AND AIR CONDITIONING A Division of Midland-Ross Corp.

Columbus 16, Ohio

Gentlemen:

Please rush me complete information on new Janitrol Line and the powerful model home merchandising aids that will double my sales powerf

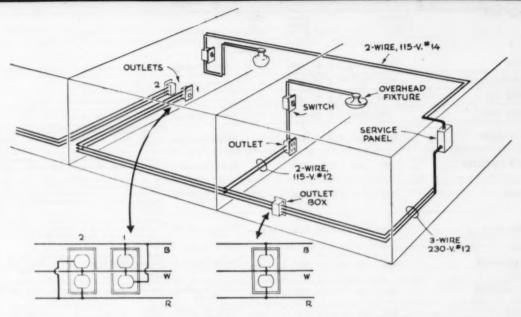
ADDRESS.....ZONE....STATE.....

Feature the nationally advertised, consumeraccepted, Janitrol brand name in your homes, at prices no higher than ordinary "builder model" equipment!

FREE ...

Model home merchandising aids to help you sell your homes (instead of the furnace)! Do a real selling job on your model homes with this exclusive promotion plan. It's sales-action tested and complete . . . a powerful traffic-builder and point-of-sale tool to help you build sales and profits. See for yourself! Mail coupon today for facts on this terrific sales booster!

3-Wire Perimeter Circuiting; Low-Voltage Switching

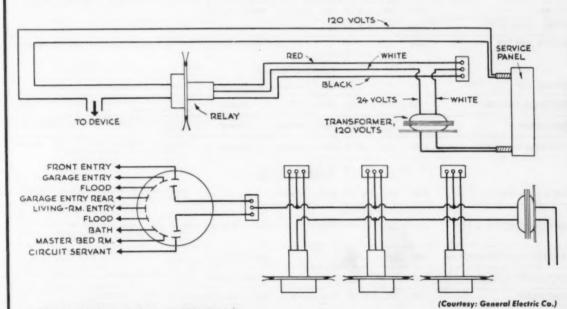


THREE-WIRE, 220-VOLT PERIMETER WIRING

This system has two basic advantages over conventional wiring. First, it makes two circuits available for every one wire that's pulled, reducing labor costs. And second, it makes 220-volts available in every room, so that room air condi-

(Courtesy: National Electrical Manufacturers Assoc.)

tioners can be installed without the need for additional wiring. Convenience outlets can be wired in either of the two ways shown, and overhead lights can be wired off the perimeter if it is desirable.



LOW-VOLTAGE RELAY SWITCHING

Low-voltage relay systems are most often used where it is desired to operate lights or other electrical devices from several different switches. The master switch system, shown above, is the most common: from one master switch, generally in the master bedroom, as many as nine key circuits in the house can be controlled. Low-voltage wire need not be armored or heavy, can be run at much lower cost than conventional 110-volt wire. 13

ELECTRICAL, WIRING

Load and Circuit Chart

	Typical Connected Watts	Volts	Wires	Breaker or Fuse	r on	Outlet	Notes
					KITCHEN		
RANGE	12000	129/240	3 # 6	50A.	. 1	Special Purpose	Use of more than one outlet is not recommended
OVEN (Built in)	4500	129/240	3 # 10	30A.	. 1	Special Purpose	May be direct connected.
RANGE TOP	6000	129/240	3 # 10	30A.	. 1	Special Purpose	May be direct connected.
RANGE TOP	3300	129/240	3 # 12	20A.	. 1	Special Purpose	May be direct connected.
DISHWASHER	1200	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on a single circuit. Grounded receptacles required otherwise.
WASTE DISPOSER	300	120	2 # 12	20A.	1	Parallel Grounding	These appliances may be direct connected on single circuit. Grounded receptacles required otherwise.
BROILER	1500	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Heavy-duty appliances regularly used at an location should have a separate circuit. Only on such unit should be attached to a single circuial the same time.
FRYER	1300	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel	Heavy-duty appliances regularly used at an location should have a separate circuit. Only on such unit should be attached to a single circu at the same time.
COFFEEMAKER	1000	120	2 # 12	20A.	1 or more	Parallel Grounding Parallel •	Heavy-duty appliances regularly used at or location should have a separate circuit. Only or such unit should be attached to a single circuat the same time.
REFRIGERATOR	300	120	2 # 12	20A.	. 1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator and freezer is recommended.
FREEZER	350	120	2 # 12	20A.	. 1 or more	Parallel Grounding Parallel	Separate circuit serving only refrigerator an freezer is recommended.
				1	LAUNDRY	,	
WASHING MACHINE	1200	120	2 # 12			Parallel Grounding	Grounding type receptacle required. Separate ci cuit is recommended.
DRYER	5000	120/240	3 # 10	30A.	. 1	Special Purpose	Appliance may be direct connected — must I grounded.
IRONER	1650	120	2 # 12	20A.	1 or more	Parallel Grounding	
HAND IRON	1000	120	2 # 12	20A.	1 or more	Parallel	Consider possible use in other locations.
WATER HEATER	3000					Special Purpose	Consult utility company for load requirement
				LIV	VING ARE	AC	
WORKSHOP	1500	120	2 # 12			Parallel Grounding	Separate circuit recommended.
	1300		2 # 12			Parallel	Should not be connected to circuit serving oth
PORTABLE HEATER							heavy-duty loads. Should not be connected to circuit serving a
TELEVISION	300	120	2 # 12	20A.	. 1 or more	Parallel	pliances.
PORTABLE LIGHTING	1200	120	2 # 12	20A.	, 1 or more	Parallel	Provide one circuit for each 500 sq. ft. Divide receptacle may be switch controlled.
				FIX	CED UTILIT	ries	
FIXED LIGHTING	1200	120	2 # 15		. 1 or more		Provide at least one circuit for each 1200 wa
PIALU CIOTILITA		-	- 11				of fixed lighting. Consider 4 kw 3-wire circuits to all window
AIR CONDITIONER ¾ hp	1200	120	2 # 12	20A.	. 1	Parallel Grounding	console-type air conditioners. Outlets may the adapted to individual 120- or 240-volt n chines. Connection to general purpose or appance circuits is not recommended.
CENTRAL AIR CONDITIONER	R 5000	240				Special Purpose	Consult manufacturer for recommended connections.
HEAT PUMP	*14000	240				Special Purpose	Consult manufacturer for recommended conntions.
SUMP PUMP	300	120	2 # 12	2 20A	. 1 or more	Parallel Grounding	May be direct connected.
HEATING PLANT	600	120	2 # 12	2 20A.	. 1		Direct connected. Some local codes require ser
FIXED BATHROOM HEATER		120					Direct connected.
ATTIC FAN	300	120	. "			Parallel Grounding	May be direct connected. Individual circuit
ATTICTAL		-	20 70	-	1 0	1	recommended. Courtesy "Live Better Electrical!

LIVING ROOM, FAMILY ROOM

For rooms 125 square feet and below, required is either: a) A single lighting fixture 12-15 in. in diameter, holding one 100-watt bulb or three 40-watt bulbs, b) 6 feet of structural lighting such as a cornice, bracket or valance.

For room sizes between 125 and 225 square feet, required is either: a) A 15-17 in. fixture holding one 150-watt bulb or four 40-watt bulbs, b) 8-12 ft. of structural lighting.

For rooms over 225 square feet, 16-20 ft. of structural lighting is required. In all cases, a combination of structural and ceiling fixture lighting is desirable.



4DINING AREA: Required is ceiling fixture, suspended type preferred, centered above spot for dining table, incorporating at least 150 watts in one or more bulbs. If possible, one fact of structural lighting for every 12 square feet of room area should also be used.

KITCHEN

For general lighting, there should be one ceiling fixture, a minimum 12 inches in diameter, to house one 150-watt, two 75-watt, or three 60-watt bulbs. If fluorescent type, use two 40-watt, four 20-watt, or two circline fluorescent lamps.

For local lighting, above sink in front of window use additional ceiling fixture as above, or one recessed fixture in soffit containing a minimum of 150 worts.

For sink under a cabinet, range, and work counters, required is a wall bracket containing one 20-watt fluorescent, or two 40-watt incandescent for each four feet of counter. If mounted flush with underside of cabinets, shielding is not required.





◆BEDROOMS: For bedrooms 125 square feet and below, use either: a) One ceiling fixture with a 12-15 in. diameter containing one 100-watt bulb, or b) three 40-watt bulbs, and 6 feet of structural lighting. For bedrooms between 125 and 225 square feet, use 15-17 in. fixture containing one 150-watt or four 40-watt bulbs, or 8-12 ft. of structural lighting. A combination of both is most desirable.

BATHROOM AND LAVATORY >

One fixture located at each side of grooming area and one fixture located on ceiling or wall over grooming area. Each of these should accommodate one 20-watt fluorescent, two 40-watt incandescent, or one 60-watt incandescent, For wall-to-wall mirrors, a row of shielded fluorescent tubes should be extended across full width of mirror.





LAUNDRY, UTILITY, WORKSHOP, BASEMENT: A minimum of one ceiling or wall fixture over each principal work area. Ceiling fixtures should be a minimum 12 in. in diameter carrying a minimum 150 watts in bulb or bulbs. For fluorescents two 40-watt, four 20-watt, or two circline fluorescent lamps. Wall brackets along work areas should contain one 20-watt fluorescent, or two 40-watt incandescent, for each four feet of area to be covered.

HALLS, PASSAGEWAYS

For each hall or passageway, use a minimum of one ceiling fixture, wall bracket, or recessed fixture accommodating a 60-watt bulb for every 10 feet of passageway.





OUTSIDE THE RESIDENCE: A minimum of one or more fixtures at each entrance of the residence.

ACCESSIBLE UNFINISHED STORAGE AREAS: A minimum of one fixture socket or wall bracket for each 200 square feet of floor space.

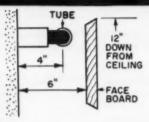
CLOTHES CLOSETS: A minimum one-lamp receptacle or fixture for each full-door closet.

GARAGE OR CARPORT: A minimum of one lamp receptacle or fixture using one 100-watt bulb at both sides of each parking area.

Courtesy: American Home Lighting Institute, Inc.

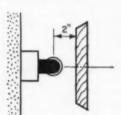
ELECTRICAL, WIRING

Selected Built-in Lighting Details



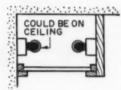
VALANCE

Shown here with side-mounted channel. Tube should be far enough from wall to prevent drapery from shielding downward light. Provides both ceiling- and wall-lighting.



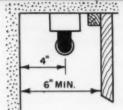
BRACKET

Like valance, but centerline of faceboard is on same level with tube, should be closer to wall. Light emission is both upward and down.



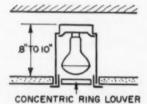
SOFFIT

Underside of beam or furreddown section containing recessed luminous panel. Chiefly for local lighting, but several soffit panels could provide adequate general illumination.



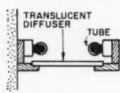
CORNICE

Provides wall light only. Faceboard joins ceiling. Channel is ceiling-mounted. Recommended for low-ceiling rooms, or where window head is close to ceiling.



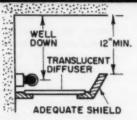
RECESSED DOWNLIGHT

Technically a fixture, but its inclusion in home should be planned prior to rough wiring. Using reflector-type bulb, adds highlights and drama to interior design.



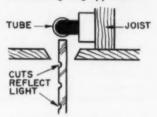
CANOPY-OVERHANG

Like luminous cove; but downward, diffused light is primary purpose of structure. Uniform brightness of diffusion panel would normally require at least two rows of tubes.



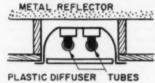
COVE

Emits light horizontally and upward unless shield is transluscent (luminous cove). Should be either luminous or low enough to flood upper wall—otherwise too inefficient for home lighting applications.



EDGELIGHTING

Arrangement of plastic or glass panel to transmit light edgewise — invisibly except where decorative cuts, ripples, or flutes in surface re-direct light, appear as its source.



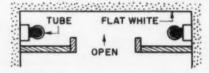
TROFFER

A fixture that provides a "preassembled" recessed panel including reflector. Generally narrow, made to permit endto-end, continuous runs.



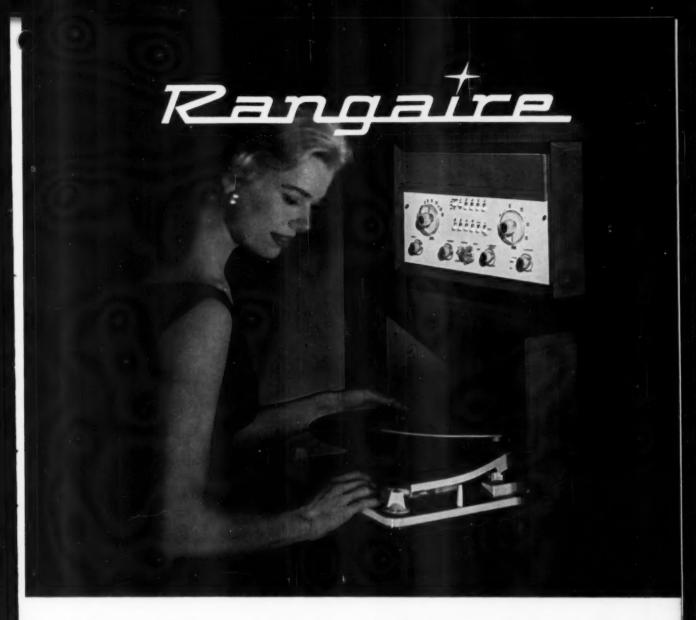
SUSPENDED CEILING

Either diffusion or opaque material suspended to form light plenum. Plastic or glass left open (right) would afford better ventilation, but could be harder to shield properly.



COFFER

A recessed cavity open at bottom with high cut-off angle. Interior surface becomes an indirect, diffused light source, primarily local.



The Stereophonic Home... Rangaire's way to faster sales in '61!

Here's a completely new sales sparking promotional package to enhance the sales appeal of every home you build . . . and at an amazingly low cost to you.

Your selling job will be so much easier when you feature the Rangaire Stereophonic Radio Intercom System in every home you build. And Rangaire's Stereophonic Home promotional package helps you build a powerful sales promotion right in your own community.

Your prospects will be intrigued with the magnificent styling, the satin smooth hardwood cabinets and the unsurpassed tonal resonance of the Rangaire Stereo Radio Intercom System. A simple demonstration virtually turns any home into a concert hall . . . a touch of elegance that sets your home apart in your prospects' eyes. The price . . . Rangaire's low cost will surprise you . . . it's practical for even your lower budget homes. Better your sales in '61 . . . Rangaire has the product, the price and the promotion to help you profit. Return coupon for complete details today.



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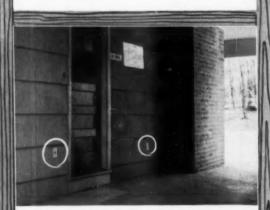
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Telephone man Robert Dahill checks position of telephone-wired kitchen outlet with builder Arthur P. Aaron.



Breezeways of A & A homes come with outlets for permanent or portable telephones.

Your Telephone Business Office will gladly help you telephone-plan your homes. For details on home telephone installations, see Sweet's Light Construction File, 11c/Be. For commercial installations, Sweet's Architectural File, 34a/Be.

"We're always looking for something that will help sell houses, and concealed telephone wiring does"

SAYS ARTHUR P. AARON, A & A BUILDERS, INC., AVON, CONNECTICUT

Arthur P. Aaron was the first contractor in Connecticut to telephone-plan his homes with concealed telephone wiring. "For the nominal cost, concealed wiring is definitely a good investment," says Mr. Aaron. "We're always looking for something that will help sell homes, and concealed wiring does just that."

Mr. Aaron has constructed homes from \$20,000 to \$35,000, all with concealed telephone wiring. He's also planning to pre-wire homes of \$15,000 and \$16,000 which he expects to build in Avon and Norwich this year.

"I mention concealed telephone wiring in my newspaper advertising, and I instruct my salespeople to point out this feature in our model homes," says Mr. Aaron. "It's an extra selling point, it's practical, and the other fellow may not have it."

BELL TELEPHONE SYSTEM





Vina-Lux vinyl asbestos tile floors help you sell those tough prospects who will have "nothing but the best"... on a budget. Here's how: Vina-Lux floors come in a wide selection of coordinated colors and styles to meet the most discriminate taste. Yet they cost far less than other types of vinyl flooring.

Equally important, Vina-Lux helps you build more house for less money, because it installs faster and easier on or below grade over concrete slab — the modern, low-cost construction method — or over wood or plywood sub-floors.

Compare Vina-Lux for yourself — let us send you free samples, color charts, model home merchandising kit and idea-filled "Vina-Lux Floor Styling Handbook."

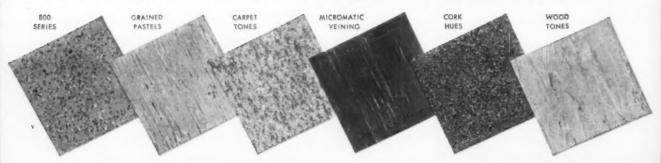
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Over 50 colors and a style for every builder requirement



Hardwood Flooring Data

STANDARD SIZES, COUNTS and WEIGHTS

"Nominal" is the size designation used by the trade, but it is not always the actual size. Sometimes the actual thickness of hardwood flooring is 1/2-inch less than the so-called nominal size.

"Actual" is the mill size for thickness and face width, excluding tangue width. "Counted" size determines the board feet in a shipment. Pieces less than 1 inch in thickness are considered to be 1 in.

		AK		BEI	ECH, BIRCH, HARD	MAPLE AND PE	CAN
Nominal	Actual	Counted	Weights M Ft.	Nominal	Actual	Counted	Weights M Ft
				TO	NGUED AND GRO	OVED-END MATC	HED
TO	NGUED AND GRO	OVED-END MATE	CHED	25/3" x 31/4"	25/2" x 31/4"	1" x 4"	2300 lbs.
2%1" x 31/4"	3%1" x 31/4"	1" × 4"	2300 lbs.	31/32" × 21/4"	31/12" × 21/4"	1" x 3"	2100 lbs.
21/11" x 21/4"	3%1" x 21/4"	1" × 3"	2100 lbs.	33/32" × 2"	23/12" × 2"	1" x 234"	2000 lbs.
21/2" × 2"	3%1" x 2"	1" × 234"	2000 lbs.	350 x 11/2" 34" x 2"	2%3" x 1%"	1" × 21/4"	1900 lbs.
3/4" x 11/5"	25/2" x 11/2"	1" x 21/4"	1900 lbs.	%" x 1½"	11/2" x 11/2"	1" x 2½"	1000 lbs.
%" x 2"	1362" x 2"	1" x 21/3"	1000 lbs.	1/3" × 2"	13/2" × 2"	1" x 21/2"	1350 lbs.
%" x 1%"	1½1" x 1½"	1" x 2"	1000 lbs.	1/3" x 11/3"	11/a" x 11/4"	1" x 2"	1300 lbs.
1/2" × 2"	11/2" x 2"	1" x 21/2"	1350 lbs.		ERECIAL T	HICKNESSES	
1/2" x 11/2"	11/2" x 11/2"	1" x 2"	1300 lbs.			HICKINESSES	
/1 X 1/2	/11 X 1/1	1 82	1300 103.	11/4" x 31/4"	23/2" x 3/4"	5/4" x 4"	2400 lbs.
	SQUAR	E EDGE		11/4" x 21/4"	21/52" x 21/4"	5/4" x 3"	2250 lbs.
						5/4" x 23/4"	2250 lbs.
% × 2"	%" x 2"	face count	1200 lbs.	Abov	re Tongued and Gr	ooved and End M	atched
%" x 1½"	%" x 11/2"	face count	1200 lbs.	Jo	INTED FLOORING	— i. e., Square E	dge
				25/2" x 21/2"	21/2" x 21/2"	1" x 31/4"	2250 lbs.
				25/21" x 31/4"	23/2" x 31/4"	1" x 4"	2400 lbs.
				21/12" x 31/2"	2/2" x 3/2"	1" x 41/4"	2500 lbs.
				11/4" × 21/2"	23/3" x 2/3"	5/4" x 31/4"	2500 lbs.
				1%6" x 31/2"	3/12" x 31/2"	5/4" x 4/4"	2600 lbs.

NOTE: Oak, Beech, Birch, Hard Maple and Pecan Flooring are bundled by averaging the lengths. A bundle may include pieces from 6 in. under to 6 in. over the nominal length of the bundle. No piece shorter than 9 in. admitted.

The percentages under 4 ft. referred to in the grading rules on this page apply on total footage in any one shipment of the item.

 $rac{1}{2}$ -in, allowance shall be added to the face length when measuring the length of each piece,

Flooring shall not be considered of standard grade unless the lumber from which the flooring is manufactured has been properly kiln-dried.

ESTIMATING FLOORING

Figures below are board feet of various sizes of flooring required to cover square feet of floor space shown at left.

Square Ft. Floor Space	31/4	21/4	3%1 x 11/1	1/2 x	1½ 1½	% x 2	% x
10	13	14	16	13	14	13	14
20	26	28	31	26	28	26	28
30	39	42	47	39	42	39	42
40	52	56	62	52	56	52	56
50	65	70	78	65	70	65	70
60	78	83	93	78	83	78	83
70	91	97	109	91	97	91	97
80	104	111	124	104	111	104	111
90	117	125	140	117	125	117	125
100	129	139	155	130	139	130	139
200	258	277	310	260	277	260	277
300	387	415	465	390	415	390	415
400	516	553	620	520	553	520	553
500	645	692	775	650	692	650	692
600	774	830	930	780	830	780	830
700	903	969	1085	910	969	910	969
800	1032	1107	1240	1040	1107	1040	1107
900	1161	1245	1395	1170	1245	1170	1245
1000	1290	1383	1550	1300	1383	1300	1383
Counted as	1×4	1 x 3	1 x 21/4	1 x 21/2	1 x 2	1 x 21/2	1 × 2
Weight	2300	2100	2000	1350	1300	1000	1000
Size of nails used	84	8d	8d	5d	5d	4d	4d
Nail					10 in.		8 in.
spacing	10-12	in. on c	enter	on c	enter	on c	enter
No. pieces per bundio	8	12	12	18	18	24	24
To obtain B.M. from bundle multiply by	23%	3	21/4	3¾	3	5	4

COMPUTING FLOORING NEEDS

To determine the board feet of flooring needed to cover a given space, first find the area in square feet then add it to the percentage of that figure which applies to the size flooring to be used, as indicated below. The additions provide an allowance for side-matching plus an additional 5% for end-matching and normal waste.

55% for			
421/2% for	25/82"	×	2"
381/2% for			
29% for	23/52"	×	31/4"
381/2% for	3/11	×	11/2"
30% for	3/800	×	2"
381/2% for			
30% for	1/2"	×	2"

The above figures are based on laying flooring straight across the room. Where there are bay windows or other projections, allowance should be made for additional flooring.

NAIL SCHEDULE — OAK FLOORING Tongued-and-grooved flooring. To be blind-nailed.

Type, Size, Spacing of Nails
Bright casing nail — 4d wire or cut nail, or screw nail. 8 in. apart. Wood subfloor required.
7d or 8d screw type or cut steel nail.* 10-12 in. apart.
5d screw type or cut steel or wire nail. 10 in. apart. Wood subfloor required.
Square-edge flooring. Face-nailed.
1-in. 15 gauge fully barbed flooring brad, preferably cement coated. 2 nails every 7 in. Wood subfloor required.

*If steel wire flooring nail is used, it should be 8d, preferably cement coated. Newly developed machine-driven barbed fasteners of the size recommended by the manufacturer are acceptable.

Courtesy National Oak Flooring Mirs. Assn.

Resilient Flooring Data

TYPE OF FLOORING	ASPH REGULAR	GREASE-	SEMI- FLEXIBLE ASBESTOS	REGU	BACKED LAR			FLEXIBLE HOMO- GENEOUS	RUBB	ER	LINOLE	UM	CORK
FORM AVAILABLE	TILE	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE	SHEET	TILE	SHEET	TILE	TILE
DIMENSIONS* Size or Width, Inches Thickness, Inches	9 x 9 0.125 0.1875	9 x 9 0.125 0.1875	9 x 9 0.0625 0.080 0.09375 0.125	72 0.0625 0.070	9 x 9 0.0625	45, 72 0.0625 0.080	9 x 9 0.0625 0.080	9 x 9 0.080 0.09375 0.125	36 0.080 0.125 0.1875	9 x 9 0.000 0.125 0.1875	72 0.070 0.090 0.125	9 x 9 0.065 0.090 0.125	9 x 9 0.09375 0.125 0.1675 0.3125
Approximate Installed Cost Per Squere Feet in Cents For Thickness Indicated	0.125" \$.2045 0.1875" \$.2550	0.125" \$.2550 0.1875" \$.3055	0.0625" \$.2535 0.125" \$.4060	0.0425" \$.3040 0.070" \$.4550	0.0625" \$.3040	0.0625" \$.5060 0.080" \$.5570	0.0625" \$.5060 0.080" \$.5570	0.080" \$.5580 0.09375" \$.70-1.30 0.125" \$.75-2.00	0.080" \$.4555 0.125" \$.5570 0.1875" \$.7090	0.080" \$.4555 0.125" \$.5570 0.1875" \$.7090	0.070" \$.2535 0.090" \$.3045 0.125" \$.4060	0.065" \$.2535 0.090" \$.3045 0.125" \$.5070	0.09375" \$.3545 0.125" \$.4555 0.1875" \$.5565 0.3125" \$.7590
USE LEVEL** Suspended On Grade Below Grade	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Ne No	Yes Yes No	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes No No	Yes No No	Yes Yes No
PHYSICAL CHARACTERISTICS Thermal Conductivity Btu/Hr./ Sq. Ft./°F/In. Rolative Maximum Static Load Without Permanent Indentation Expressed in Lbs./Sq. In	3.1 25(Fair)	3.1 25(Fair)	3.1 25(Fair)	1.4 75(Good)	1.4 75(Good)	1.2-3.3 75(Good)	1.2-3.3 75(Good)	5.3	5.3	5.3	1.5 75(Good)	1.5 75(Good)	0.5
Under Foot Comfort	Fair	Fair	Good	Good	Good	Good	Good	(Excellent)	(Excellent) Excellent			Good	Excellen
Apparent Warmth to Touch	Fair	Fair	Good	Good	Good	Good	Good	Goed	Good	Good	Good	Good	Exceller
Quietness (Noise Level) Surface Alkali	Fair	Fair	Good	Good	Good	Good	Good	Very Good	1	,		Good	Exceller
Resistance Greense Resistance	Excellent	Excellent Very Good	Excellent Excellent	Excellent Excellent	Excellent	Excellent	Excellent Excellent	Excellent Excellent		Good	Fair Excellent	Fair Excellent	Feir Feir

Slipperiness

Impact Resistance

All are resistant to shattering, splitting, cracking or other damage under normal impact conditions.

Light

Reflectivity

Varies from almost zero to 65% depending on color, surface texture and finish—consult manufacturer.

Durability All show excellent durability under use conditions for which they are individually suitable when installed and maintained as recommended by manufacturer.

Varies with finish and waxing, normally all are slip-resistant when dry.

Material Courtesy Building Research Institute

^{*}Nominal commercial dimensions only are shown—other sizes, shapes, thicknesses and widths very with manufacturer.

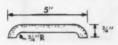
^{**}When installed in accordance with the specific precautions and recommendations of the manufacturer.

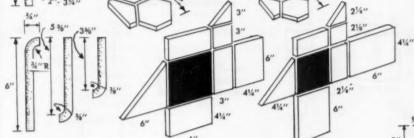
Ceramic Tile Standards

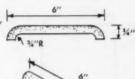
GLAZED CERAMIC INTERIOR TILE

Nominal thickness of Glazed Interior Tile shown in drawings is ½". Tiles 6" x 9" x ½" and 6" x 12" x ½" are available from some manufacturers. Nominal sizes shown are subject to slight variation. Also available from most manufacturers: these shapes in a bright glaze, a matte glaze and a special purpose glaze. The shapes in black are those most frequently used and those shaded are available when required.

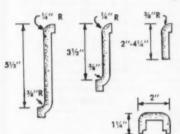


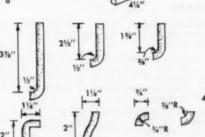


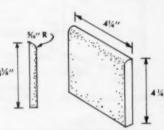




2"







QUARRY TILE

Basic shapes for flat Quarries are shown in black. For the trimmer shapes shown there are complementary corner pieces available. Con-sult the Tile Contractor if other shapes than those illustrated are required for special conditions. Dimensions shown on the drawings are nominal . . . some slight variation is to be expected in actual measurements. Shapes other than the basic ones shown are available from some manufacturers.

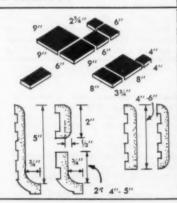
UNGLAZED CERAMIC MOSAIC TILE

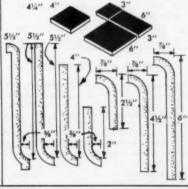
PAVER TILE

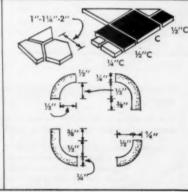
The basic shapes for flat Paver Tile are shown in black. For the coves and caps there are the complementary corner pieces available. Consult the Tile Contractor if other shapes are required for special conditions. The sizes shown are nominal dimensions and will have a slight tolerance.

CERAMIC MOSAIC

The series of sizes of Ceramic Mosaic is usually referred to as the 2" or the 1-9/16" series. Actually there are slight variations, according to the practice of manufacturers as follows: $C=2^{\prime\prime}$, 2-3/16 $^{\prime\prime}$, 1-9/16 $^{\prime\prime}$ or 1-15/16 $^{\prime\prime}$. Basic shapes are shown in black on the drawing. Pentagon and Octagon shapes are made by some manufacturers. For both Coves and Caps there are complementary corner pieces avail-



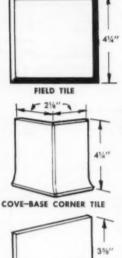




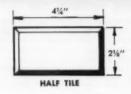
NOTE: In the industry today, ceramic tile is set (1) with cement mortar; (2) with organic adhesives, and (3) with cement mortar—using a newly-developed thin-setting bed method. Information on all three methods may be obtained from the Tile Council of America, Inc., 800 Second Ave., New York 17, N. Y.

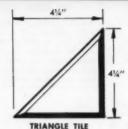
Courtesy Tile Council of America

Plastic Tile Standards



414"

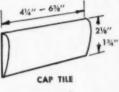


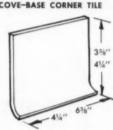












COVE-BASE TILE

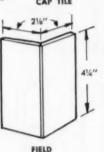
HALLMARK

HALF TILE

Polystyrene plastic wall tile which carry this hallmark indicate compliance with Commercial Standard 168-50 which includes the following conditions:

DIMENSIONAL TOLERANCES—The face sizes of tiles shall not vary one from the other, in any comparable dimension, more than a negative tolerance of 1/10 of 1% or 0.005 in., whichever is greater, and by a positive tolerance of 2/10 of 1% or 0.010 in., whichever is greater.

THICKNESS—The thickness of the plastic in tile shall be greater than 0.062 in. The lip on the tile shall extend at least 0.033 in. beyond the back of the tile.



CORNER TILE

ESTIMATING AND DESIGNING FACTORS

(Based on 41/4 x 41/4 Tile)

LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE	LENGTH	NO. OF TILE
41/4"	1	3'-1034"	11	7'- 51/4"	21	10'-1134"	31	14'- 614"	41	18'- 034"	51
81/2"	2	4'- 3 "	12	7'- 91/2"	22	11'- 4 "	32	14'-101/2"	42	18'- 5 "	52
1'- 03/4"	3	4'- 714"	13	8'- 134"	23	11'- 814"	33	15'- 234"	43	18'- 91/4"	53
1'- 5 "	4	4'-111/5"	1.4	8'- 6 "	24	12'- 01/2"	34	15'- 7 "	44	19'- 11/2"	54
1'- 914"	5	5'- 334"	15	8'-1014"	25	12'- 434"	35	15'-1114"	45	19'- 53/4"	55
2'- 11/1"	6	5'- 8 "	16	9'- 21/2"	26	12'- 9 "	36	16'- 31/2"	46	19'-10 "	56
2'- 51/4"	7	6'- 01/4"	17	9'- 634"	27	13'- 11/4"	37	16'- 73/4"	47	20'- 21/4"	57
2'-10 "	8	6'- 41/2"	18	9'-11 "	28	13'- 51/5"	38	17'- 0 "	48	20'- 61/2"	58
3'- 21/4"	9	6'- 8%"	19	10'- 314"	29	13'- 934"	39	17'- 41/2"	49	20'-1034"	59
3'- 61/2"	10	7'- 1 "	20	10'- 71/2"	30	14'- 2 "	40	17'- 81/2"	50	21'- 3 "	60

HOW TO USE THIS TABLE

This table can be valuable to the designer and estimator in several ways.

- In designing or layout, the number of courses of tile can be ascertained, for any required height or length of wall.
- Example: Assume that a wainscot height of 4'-6" is desired and it is required to know the number of tiles necessary to approach this dimension. Checking the table it will be found that 13 tiles give a course height of 4'-7'4". If desirable to hold close to the 54" dimension, 12 full tiles may be finished with a half tile or cap of 2\%" giving a total height of 4'-5\%".
- 2. Estimating tile quantities for a given area.

Example: Length of wall in lineal feet—17'-0" Height of wall—5'-8"

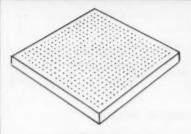
Number of tile in 17'-0" = 48 Number of tile in 5'-8" = 16 48 x 16 = 768 tiles required.

3. Estimating the number of pieces of $414^{\prime\prime}$ cap, base or feature strip required for lineal feet of wall.

Example: Assume total lineal feet of wall to be tiled to be 48 feet.

Consulting the table it will be found that 34 pieces are needed for 12 feet. Therefore: 34 x 3 \Longrightarrow 102 the total number of pieces required.

Courtesy The Society of Plastics Industry, Inc.



CELLULOSE-FIBER TILE

There are, of course, very definite acoustical properties in the tiles shown here, and, as you might expect, the amount of sound absorbtion varies with the material, thickness, density, etc. of the product. This variance is measured in n.r.c., or Noise Reduction Coefficient. We mention this because you might be led to compare the materials and products strictly on their n.r.c. rating. This would be a mistake, since the variance is seldom one that the human ear can discern. This is particularly true in the home.

When choosing tile, it is best to take all factors into consideration. This would include: appearance, light reflection, thickness, moisture resistance, maintenance, insulation value, ease of installation, flame resistance and cost.

The standard size of this tile is 12"x12", although nearly all are available with other dimensions and with a variety of thicknesses. Some data on the types shown above:

Cellulose-Fiber Tile: Generally lower in price than other units; subject to some dimensional changes due to moisture content; also available with a flameresistant finish; can be made termite, fungi and dry-rot proof by special manufacturing processes.

Mineral Tile: Are classified Class A Incombustible; are slightly more expensive than cellulose-fiber; are used often when special artistically decorative effects are desired.

Perforated Metal Tile: Is used commercially most of the time; has a mineral wool pad in back of metal; has highest acoustical efficiency of commercial acoustical tile; is used frequently where long-range economy of maintenance is important.

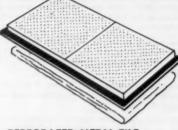
Glass-Fiber Tile: Also has an incombustible rating; has good moisture resistance; some tiles have thin plastic membrane covering which makes them washable.

Perforated Asbestos Tile: Especially important for its moisture resistant qualities; has high acoustical qualities as well; often used in radio studios, etc., where sound absorbtion is important.

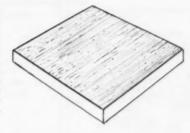
Courtesy Acoustical Materials Association



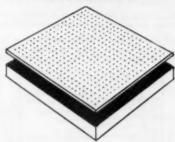
MINERAL TILE



PERFORATED METAL TILE

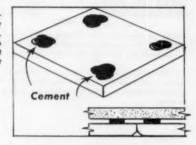


GLASS-FIBER TILE

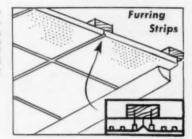


PERFORATED ASBESTOS TILE

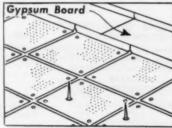
Cementing: When cementing on plaster, be sure plaster is sized or properly painted (in new or remodeling work). Can also cement to gypsum board. A dab of cement at each corner is all that is necessary. Check with manufacturer for proper adhesive.



Nailing: Wood furring strips, 1" x 3" may be used as a base for nailing or stapling where surface af ceiling is rough. On new work, it is often possible to nail strips directly onto bottom of joists. Nails should be driven beyond surface of tile with nail set; or by mechanical means.



Screwing: This method is generally used when floor above will be subjected to vibration. Material can be screwed to furring strips or to gypsum board backing. Finished level of ceiling is governed by care and accuracy with which gypsum board is installed.



NOTE: A fourth method—mechanical suspension—is aften used industrially and commercially where special conditions prevail. For information, consult your manufacturer.

14

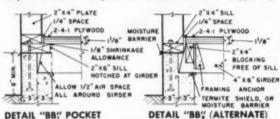
The panel is applied by placing the 8' lengths across two 48" spans, with 2x4 blocking beneath the edges (Fig. 1). It is fastened down with 10d common or 8d common ring shank or hellically-threaded nails spaced 6" o.c.

Suggested maximum spans for No. 2 Douglas Fir or Southern Pine girders are 8', 11', and 14' for girder sizes of 4x6, 4x8, and 4x10, respectively.

The 2-4-1 plywood floor panel is unique in that a load capacity of 100 lbs. per sq. ft. at a deflection of 1/360th of span is possible without exceeding the allowable fiber stress.

This flooring system is primarily a subfloor and underlay for tile, carpeting, linoleum or other nonstrucutral flooring.

The partial plan and Section AA shown in Fig. 2 illustrates how the panels are fastened across the girders. The 4'x4' panels are used in, conjunction with the 4'x8' panels so that the end seams are staggered.



DETAIL "BB" POCKET IN FOUNDATION

CONTINUOUS LEDGE

line of the 2x4 blocking.

Details BB show alternate methods of the girder setting at the walls. Detail BB1, for example, indicates a pocket in the foundation which receives the girder and with the 2"x6" sill notched for girder clearances.

On Detail BB2 is shown a continuous foundation ledge on which the girder is set. Note the 2x4 blacking, free of sill, fastened between the girders. The blacking provides the base for nailing the 2-4-1 panel along

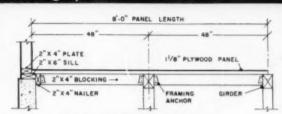


Fig. 1 2-4-1 SUBFLOOR UNDERLAY

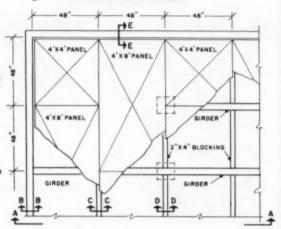
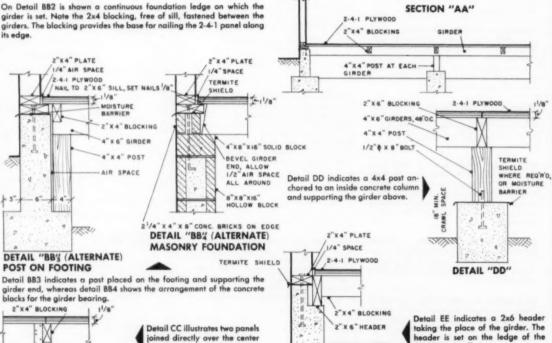


Fig. 2 PARTIAL FRAMING PLAN



4" X 6" GIRDERS - 48"O.C. DETAIL "CC"

foundation wall.

Courtesy: Douglas Fir Plywood Association

DETAIL "EE"

Hardboards: Types and Nailing Specifications

		Maximum		Nail Sp	acing		Approxi- mate No
Application	Type of Hardboard	Open Spacing	Thickness	Intermediate Supports	Around Edges	Size & Type of Nail	of Nails per Poun
INTERIOR	Standard Hardboard	Solid	36"	8" thru body	4"	Use any of these nail	s
WALLS AND	and Tempered	16"	364"	8"	4"	for these hardboard	
CEILINGS	Hardboard	16"	34"	8" 8"	4"	applications.	
		24"			-	1¼" Casing Nails	635
	Low-Density Hardboard	16" 16"	34"	8"	4"	1½" Casing Nails 1¼" Finishing Nails	475 805
	Leather Textured or Tile Patterned Hardboard	Solid Backing	36"	8" thru body	4"	1½" Finishing Nails 1¼" Counter Sunk Nails	585 700
	Wood Grain Embossed Hardboard	16"	34"	8"	4"	1¼" Box Nails 1¼" 18 ga. Brads 1¼" Ring-grooved	635 1650
	Wood Grain Printed Hardboard	16"	14"	8"	4"	Nails (Flat Head)	535
	Grooved Hardboard 4", 8" or Random	16"	3600	8"	4"	ADHESIVES: The following water-	
	Scored Hardboard	16"	34"	8"	4"	proof adhesives	
			36"	-	A"	may be used when applied according	
	Tempered S2S	Solid 16"	364"	8" thru body	4"	to manufacturer's	
		16"	34"	8"	4"	recommendations:	
	Perforated	16"	36"	8" thru body	4"	Linoleum cement	
	Hardboard	16"	364"	8"	4"	Tileboard cement Contact bond	
		16"	1/4"	8"	4"	Confact Bond	
UNDERLAYMENT	Underlayment Hardboard		.215"	6" thru body	6"	1¼" Drive Screws (Flat Head) 1¼" Barbed Box	630
PIL II GIL					***	Nails	635
FINISH FLOORING	Tempered Hardboard		1/4" 3/4"	12" thru body 12" thru body	6" 6"	1¼" Coated Casing Nails	635
PANEL SIDING	(With or without Sheathing)						
	Tempered Hardboard	16"	96a"	8"	4"	Use either nail for	
		16" or 24"	1/4" 3/4"	8" 8"	4"	Panel Siding 2¼" Galvanized Siding Nail	225
			****				22.
	Grooved Hardboard Ribbed Hardboard	16" 16" or 24"	364" 364"	8" 8"	4"	2¼" Galvanized Box Nail	220
	Scored Hardboard	16"	1/4"	8"	4"		
LAP SIDING	(With or without Sheathing)						
	Tempered Hardboard	16"	34"	16" along	3"	Plain Lap	
	12", 16" or 24" Wide	16"	%a**	bottom edge into studs	Vertically at all joints over	2½" Galvanized Siding Nails	22
					wedges	2½" Galvanized Box Nails	220
						3" Nails thru	
	(Over Sheathing)					Shadow Strip	9
	*Siding on Vented Strips 10" & 12" Widths	16" or 24"	14"	No nails thru Hardboard			
	Thick Hardboard	16" or 24"	36.**	Along bottom edge into studs	Single nail into stud at bottom of each cut piece	Special 2½" galvanized nail recommended	14
CONCRETE	Concrete Form Hardboard	See Mfr's details	34"	8" to 12" 8" to 12"	4"	1¼" Coated Casing Nails	63

PLANNING FOR SOUND CONTROL

Determining how best to sound condition a building will often require the services of a sound engineer. He may be particularly needed when problems of acoustics are concerned with churches, schools and larger institutional buildings. But there are many things that you, as a home builder, can do to cut down the noise problem in your houses. Perhaps the most basic approach to the problem is a builder's awareness of the necessity to plan for sound insulation before he builds. This plan for sound control takes three forms: 1. planning the siting and location of the house with sound values in mind (see Table 1); 2. segregating the living functions within the house (see Table 11), and 3. building in sound control (see drawings in Table 111).

The major problem in building-in noise control is a problem of sound insulation—the reduction of noise passing through walls, floors and ceilings. Sound absorption requires only surface treatments, such as acoustic tiles, either nailed to furring strips or applied with mastic. Sound insulation usually involves basic structural procedures (as shown in the drawings below). Acoustical ceiling tiles should be installed at the time of construction to avoid the extra cost of a double ceiling finish. Sound-insulating walls and floors, on the other hand, are integral parts of the building.

There are a few other cures for noise within the house.

TABLE I: ENVIRONMENTAL FACTORS

community

- Zoning regulations against noise-producing, nonresidential uses of your land.
- Adequate distance from shopping centers, railroads, truck routes and super highways. Sufficient distance so that noise produced by these elements will be almost indistinguishable from the background noise level.
- 3. Avoidance of airports and regular air lanes.

site

- Location on a street with a minimum of through traffic, a cul-de-sac being preferable.
- Reasonable distance from noise-producing community buildings such as schools, hospitals, fire houses, churches.
- Restrictions in the zoning or deed of sale making it impossible for homes to be built too close to existing houses.

location

- 1. Suitable distance from street to avoid street noises.
- Orientation of house so that existing land contours and any plantings will serve as acoustical barriers.
- Safe distance from possible noises at rear of lot. If possible plan protection from play yards and workshops.
- When necessary, planning for outdoor acoustical barriers between the house and noise sources. Brick or stone walls, solid-wood fences, earth embankments, plantings help.

Noise-producing rooms, particularly baths and utility rooms, should be provided with sound-proof doors and efficient sound-insulating walls and floors.

In houses, especially two-story structures, the problem of impact noise is often of considerable importance. Choice of floor coverings will help in reduction of impact noise.

Reduction of vibration-noise transmission is often a problem in houses with warm-air furnaces, year-round air conditioners, and various types of kitchen and laundry appliances, which are fastened to the floor. Special felt, cork, or rubber mounts are available. These can greatly reduce this type of impact noise transmission.

To reduce vibration noise through duct systems it is possible to use insulating duct liners or acoustical filters. But the best practice is to avoid the need for such treatments by specifying tight and rattle-proof ductwork and quiet-operating fans or blowers.

Plumbing noises can be annoying and precautions should be taken to minimize these sounds as much as possible. The worst noise is usually that from the toilet. But quiet-flushing, whirlpool-type equipment can be purchased at only a slightly higher cost. Drain lines should be isolated from the structure—free standing—or should be insulated with felt or some other form of insulation.

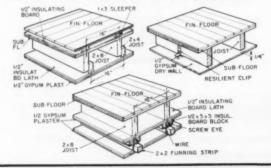
TABLE II: HOUSE PLANNING FACTORS

- Windowless wall or garage or both located as sound barrier against the greatest source of noise (street, neighbors, shopping center, etc.).
- 2. Separation of quiet rooms from noise-producing rooms by distance: bedrooms away from living, food preparation, and utility rooms; studies isolated from play areas, hobby rooms, party rooms, workshops, etc.; places for quiet conversation protected from general living area by separation or by placing in an alcove off the main living room, etc.
- Placement of bathrooms, hallways, utility rooms, and other usually quiet areas to serve as sound barriers between various quiet rooms and the noise-producing areas. Placement of fireplace and other interior masonry walls to serve the same purpose.
- 4. Insulation against sound transmission between bedrooms by closets built against regular walls. Avoidance of "closet walls" which have only a thin plywood or fiberboard backing as the barrier between two rooms.
- 5. Inclusion in plan and specifications for noise-producing rooms of adequate sound-absorbing treatment, either by design of furnishings or specification of acoustical materials, or both. This sound-planning is particularly important in moderate-sized homes with open kitchens, combined living-dining room areas, and general "family rooms," and also in children's playrooms and adult workshops.

TABLE III: WALL CONSTRUCTION

STAGGERED STUDS BLANKET INSULATION STUD BOARD LATH PLAST OR DRY WALL STAGGERED STUDS WITH THE PLAST OR DRY WALL STAGGERED STUDS WITH THE PLAST OR DRY WALL STAGGERED STUDS WITH THE PLAST OR DRY WALL 2.4 STUD WITH THE PLAST OR DRY WALL 2.4 STUD WITH THE PLAST OR DRY WALL PLAST OR DRY WALL

FLOOR AND CEILING CONSTRUCTION





the right flair steps out front in new finishes new fashions new ideas

New distinctive patterns! Richly beautiful! Surprisingly economical! You can add new sales appeal, quality and value to your homes with these four new wood-grain finishes from Plywall.

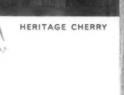
Poly-Clad Plywall wood paneling offers a combination of beauty and wearability that lends a "want-to-own" influence to every room, every home. Poly-Clad protected to resist mars, scuffs, stains. The first paneling guaranteed against fading, structural defects and delamination—in writing.

Prefinished, ready to go right up. Available in $\frac{1}{4}$ " panels, 4' x 8', 4' x 10'. Poly-Clad Plywall wood-grain finishes are also available in $\frac{1}{4}$ " cabinet stock.



MODERN CHERRY

ADIRONDACK BIRCH



NATURAL OAK

Nëw finishes

ADD EXTRA BEAUTY WITHOUT EXTRA COST!





The all-new Poly-Clad Plywall Bi-fold Door ... Now! Plywall flair in bi-fold doors! Unusual quality and beauty—unusually economical and profitable. No jambs or trim necessary—designed for floor to ceiling openings. No finishing or painting—faces are prefinished and Poly-Clad protected. Back-sealed and edgebanded to prevent warpage.

Easy to install—ready to go right up! Complete package includes top-quality hardware. Available in beautiful Rock Maple wood-grain finish. 8' high, in widths for 4', 5' and 6' openings.

New fashions

A DISTINCT DIFFERENCE IN DOORS!

Plywall brings new flair to interiors with High-Pressure Laminex doors. Distinctive! Economical! Woodgrain Poly-Clad finishes add more beauty, more value—without extra cost. Prefinished, ready to hang. Available in rich Rock Maple or English Walnut Poly-Clad finishes. Protected to resist mars, scuffs, stains. Guaranteed against fading—in writing.

Match your walls and doors! High-Pressure Laminex doors can be ordered in wood-grain finishes to match Poly-Clad Plywall paneling.

Doors are available in standard heights and thicknesses, with a wide selection of widths.





Now you can offer home buyers the option of wood-paneling accents—in bedroom, dining room, family room or den—at little or no cost to you. Plywall's new Wainscot Package is perfect for small paneling jobs. Adds a quality "plus" to your sales story.

You save money on materials and labor. No cutting waste. No special finishing. The Wainscot Package is complete, with 3 Poly-Clad Plywall prefinished wood panels, 3/16" x 39" high x 48" wide, 2 cap and 2 base matching moldings, 6'1" long (packaged separately). Available in all twelve Poly-Clad finishes. Easy to install. Stays beautiful without bother, for the life of the installation.



TO INFLUENCE HOME BUYERS

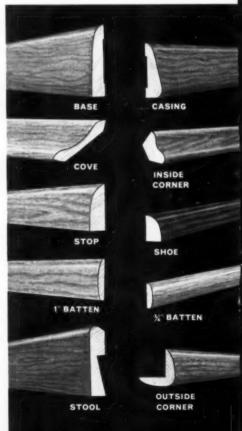


Plywall accents the quality look with matching moldings. Prefinished and Poly-Clad protected for easy, time-saving application. Ready to go up—no finishing necessary. Moldings are available in ten styles and twelve finishes to match Poly-Clad Plywall paneling. Perfect for any room decor—paneled, painted or papered.

Whatever your paneling needs, Plywall adds the right flair, the right influence—at half the cost of comparable beauty! See the complete line of Poly-Clad Plywall prefinished products at your dealer's today!

PLYWALL PRODUCTS COMPANY, INC.

Fort Wayne, Indiana • Corona, California
A subsidiary of Evans Products Company





and

LIVING FOR YOUNG HOMEMAKERS

announce a

CUSTOM BATHROOM DESIGN SERVICE

Specific in every detail ... from walls to ceilings to floors to plumbing fixtures to furnishings ... not just a tile sketch.

we'll design your bathroom to fit your space, your budget, your brands, down to the last detail...

Here's what you get. (1) a full color rendering handsomely mounted (2) working drawings and specifications (3) guaranteed delivery of both in 10 working days.

Here's what you do: fill out a complete questionnaire on which we base drawings. Name your room size, brands, colors, budget. Forward this questionnaire to your STYLON distributor.

Here's the cost: \$15 total, for everything; STYLON pays the rest. You'd pay 10 times more for commercial design service.

LIVING's design staff has tested this program for 3 years. STYLON has offered similar design guidance for a decade and has satisfied customers galore. Combine LIVING and STYLON, and you have an unbeatable combination for turning out complete bathroom ideas — fast!

Add this service to STYLON's full line of top quality ceramic tile, distributed nationally, and a nine point Model Home Merchandising Program and you sell homes!

Want some action? Clip and mail the coupon below.

STI	LON CORPORATION
	pt. LD-11
	ford, Mass.
Livi	ase send me your folder on the Stylong Design Service and have a Stylon Resontative call on me as soon as possible.
Nar	
Fire	n Name
Add	lress
City	yState
Tel	



Alternating patterns in the grain of the parquet floor highlight this dining area and blend smoothly with the random-width paneling of the walls. Paneled ceilings, like this one, tend to heighten the friendly atmosphere.

In dining areas, wood adds warmth and dignity

WOOD sells the rooms that sell the house



Sometimes unadorned simplicity shows wood's beauty best. Here, the uninterrupted surfaces create a clean, spacious effect. A concave ceiling, supported by laminated beams, lends oriental charm.

Prospective home-buyers have a habit of taking a long, close look at dining areas. Theirs will have to look elegant yet casual . . . leisurely yet distinctive. Your best solution to their desires lies in the use of wood. Nothing in the world makes dining areas more desirable than wood. The serene beauty of paneled walls . . . the warm sheen of strip flooring . . . the homey quality of a beamed ceiling . . . any or all of the uses of wood can change prospects who just bide their time into prospects who make you a bid.

In the March 17th issue of LIFE, a full-page, full-color NLMA advertisement featured the uses of wood in dining areas. Millions of people—your prospects among them—saw the ad. They will be looking for wood in the dining areas you show them. For more information on better homes of wood, write:

NATIONAL LUMBER MANUFACTURERS ASSOCIATION
Wood Information Center, 1319 18th St., N.W., Washington 6, D. G.



means built to sell



Large windows with frames of wood give this dining area a feeling of airiness. Walls are paneled with hardwood plywood. Beautiful floors—pegged in this case—generally make a strong impression on sales prospects.

BRAND NAMES DIRECTORY

(Continued from page 206)

PLASTIC-ARMOR Permagile PLASTIC CONGOWALL Congoleum-Nairn Inc PLASTIC RESIN GLUE Borden Chemical Co D V Borden Co
PLASTICO Allied Chemical
PLASTICO Douglas & Sturgess PLASTICONE FORM TIE Gates & Sons Inc
PLASTIGLASS Warp Brothers
PLASTIGLIDE Plyco Corp PLASTIGLIDE PIYCO CORP
PLASTIKOTE Chicago Bronze
PLASTIMENT Sika Chemical
PLASTIVENT PIYCO CORP
PLASTOLITE Celotex Corp PLASTOLITE Celotex Corp
PLAX LOWE Bros
PLAX-COTE Lowe Bros
PLEXIGAT Plextone Corp
PLEXIGLAS Rohm & Haas Co
PLEXTONE Plextone Corp
PLUG-N-SEAL Horn A C Cos
PLUGMOLD Wiremold Co
PLUGTRIM Wiremold Co
PLY-VENEER Wearshagung Co PLY-VENEER Weyerhacuser Co Silvatek Div
PLYMOLITE Plymoid Co
PLYMOUTH Gerber Plumbing
PLYONEER Curtis Companies PLYWALL Plywall Products Co POLAR-PAK Coleman Co Inc POLAR-PAK Coleman Co Inc POLAR-PRINCE Coleman Co POLE-MASTER McCabe Powers POLK-A-DOT Clipper Mfg Co POLONAISE Paxton Brick Co POLY-CHAMP Ludlow Papers POLY-EP Peterson D J Co Inc POLY-EP Peterson D J Co Inc POLY-KRAFT Thilmany Pulp POLYFILM Dow Chemical Co POLYSOL Martin-Senour Co. POOL-COTE Modern
Swimming Pool Co Inc
POOL 'N PATIO Lowe Bros
PORC-LIN-PLY United States Plywood Corp PORCELIRON Ingram-Richardson Mfg Co PORCELPANELS Ingram-Richardson Mfg Co PORTA-MIXER Dotmar Industries Inc POSTOP Holophane Co Inc POWDER-MONKEY Air Placement Equipment Co POWER GUIDE Remington Arms Co Inc POWER HANDLE Toro Mfg Co POWER HELPER Metzgar Conveyor Co
POWER-LINE Power-Line Sales POWER MASTER Acme Engineering & Mfg Corp POWER MASTER Lewis-Shepard Products Inc POWER MATE Remington Arms Co Inc
POWER SHOP DeWalt Inc
POWER-TWIN Owatonna Tool
POWER VANE Chicago Pneumatic Tool Co
POWER-VENT Progress Mfg Co POWEROX Barrett Cravens Co POWR-DRIVE Eveready POWR PACTOR Maginniss POWRWORKER Clark Equipment Co
POZZOLITH Master Builders
PRACTICAL LUMBER COMPUTER Craftsman Book Co of America
PREMEIR Crane Co
PREMIER Metal Trims Inc
PREMIER National Window PREMOULDED MEMBRANE Meadows W R Inc PRESST-O-CEL Presstite Div PRESSWELD Colson Corp PRESSWITCH Hubbell Harvey PREST-O-MATIC Clark Door PRESTO-PATCH American

PRESTO-SEAL Kaul Clay Co PRESTO-SET United States Plywood Corp
PRIDE Johnson's Wax
PRIMAFIL Pratt & Lambert Inc PRIME-FLOW Goulds Pumps PRIME-MOVER Prime Mover PRINCESS Aeronca Mfg Co PRISMALUME Holophane Co PRISMALUME HOIODRAIN CO PROFI-MATIC Hudson H D PROGRESS Progress Mfg Co PROJECT-O-WIN Arnold Altex PROP-R-TEMP Typhoon Heat PROPELLAIR Robbins & Meyers Inc PROSLATE Bird & Son Inc PROTECTUB Protectub Inc PROTEKWOOD United States PROTO TOOLS Proto Tool Co PRY-LITE Emerson-Pryne Co PRYMALL Mobile Paint Mfg Co PRYMALL MODILE PAINT MIG C PRYME-SHAKES Weatherbest PRYME-SHAKES FYNAL KOLOR Creo-Dipt Co Inc PULL E-Z Colson Corp PUMPCRETE Chain Belt Co PUSH E-Z Colson Corp PUSHMATIC ELECTRI-CENTERS Bulldog Electric Products Div
PUTTER KUTTER J M J Industries Inc
PYLETS Pyle National Co
PYRAMID Goulds Pumps Inc
PYRO-KURE American Sisalkraft Corp PYROBAR United States PYRODOME Wasco Products PYROLITE Berko Electric Q SEAL Quigley Co Inc QUAKER Seidlitz Paint QUALIKOTE Sherwin-Williams QUALITYBILT Farley & Loctscher Mfg Co QUEEN CITY Richbilt Co QUI-LITE Insulite Div QUICK Birge Co Inc QUICK SET DADO Comet Mfg Div QUICK-CUTTER Hartmeister QUICK-MIX Ohio Lime Co QUICK-NAMEL Minnesota Paints Inc QUICK PLUG Reardon Co QUICK-WEDGE Kedman Co QUICKSEAL Standard Dry Wall QUICKSEAL Standard Dry Wall
QUICKSMOOTHER Thomas
Moulding Floor Co Inc
QUICKWALL Barreled Sunlight
QUICKWHEE Leviton Mfg Co
QUIET-KOOL Emerson Radio
QUIET-MAY Pebboo Industries
QUIET SWITCHES Leviton
QUIETONE United States GVPSUM CO QUIK-BILT Belson Mfg Co QUIK-LIFT Coffing Hoist Div QUIK-SET Moore Goodloe E Inc QUIK-SPRAY Sheffield Bronze QUIK-TEX Sapolin Paints Inc QUIKI Ideal Brass Works Inc QUIKI Ideal Brass Works Inc QUIKI LOK Kaiser Gypsum Co QUINCY ARMACLAD Hess R & G HOISTS Reiman & R & G HOISTS Reiman &
Georger Inc
R & M Robbins & Myers Inc
R & M HUNTER Hunter
Div-Robbins & Myers Inc
R-V LITE Arvey Corp
R-V-TEX Arvey Corp
RACINE Racine Hydraulics &
Machinery Inc. Machinery Inc RADIAL McQuay Inc RADIANT-AIRE Monogram Industries Inc RADIANT GLASS Allied Precision Indus Inc RADOX Barrett Cravens Co RAIDAN BATTETT CTAVENS CO RAILAID Koehring Co RAILPORTER Chain Belt Co RAINBOW ROCK General Engines Co Inc RAMONA Pacific Tile

RANCH Rieter Woodwork RANCHLINE Allied Chemical RANCHWOOD Southwood Corp RANDOMWOOD United State Plywood Corp RANGAIRE Roberts Mfg Co RANGE-VENTOR Universal RANGEMASTER Aubrey Hardware Mfg Inc RANGER Clark Equipment Co RANGER Wood Shovel & Tool RAPAK Racine Hydraulics RAPID CONTROL JOINT RAPID CONTROL JOINT DUF-O-WAI DIV RAPISTAN Rapids-Standard Co RAWL DRILLS Rawplug Co RAWL DRIVES Rawplug Co RAWLPLUGS Rawplug Co Inc RAY O LITE Ray-O-Lite Corp RAY VEC Electrend Products BAYDHAT Well but also Co RAYDIANT Weil-McLain Co RAZON Tremco Mfg Co RE-3 Wilbur & Williams Co READING Hardware Products READY-CUT Eveready Briksaw
READY HUNG DOORS Ready
Hung Door Corp
READYBUILT Readybuilt Products Co
REAL-FYRE Peterson Robert H
REAL SEAL Dad & Lad Co
REALITE Holophane Co Inc
REALOCK Colorado Fuel & Iron
RECESSO Lawler Automatic RED BRAND Keystone Steel RED CENTER Simonds Saw RED CENTER Simonds Saw
RED DEVIL Pecora Inc
RED END Lufkin Rule Co
RED END Simonds Saw & Steel
RED FOOT Roe Justus & Sons
RED HEAD Phillips Drill Co
RED-I-CUT Carborundum Co
RED-I-POST Sawhill Tubular
RED LABEL Johnson's Wax
RED STRIPE Pittsburgh Plate
RED TANG Simonds Saw & Steel RED TANG Simonds Saw & Steel RED TOP Keystone Steel RED TOP United States Gypsum RED WING Pittsburgh Plate REDUCIT O'Brien Corp REFLECT-O-RAY Appleton Coated Paper Co REFLECTASHIELD American Asbestos Product Co REFRACT-O-CRETE Acme Brick Co
REFRIG-A-BAR Acme National REFRIGA-BAK ACME NATIONAL REFRIGERATED-KOOLER-AIRE US Air Conditioning REGAL Athens Stove Works I C REGAL JOHNS-MANVILLE COPP REGAL DRESSATORY Regal Laminates Inc REGULUX Regulux Sash REGULUX Regulux Sash
REHCO Chicago Spring Hinge
REHCO Rehco Corp
RELIABLE Alith-Prouty Inc
RELIABLE Richbilt Mfg Co
RELY-ON Dap Inc
REMCON Remoon Div
REMINGTON Remington
Alum Window Core Alum Window Corp REMOVIT Farley & Loetscher RESINIZED SPEED-GRITS Behr-Manning Co RESURFO Reardon Co REV MASONRY Marietta Paint REV-A-SHELF Lake Drive REV-A-SHELF Lake Drive Products Co Inc REV-FLO Sequoia Mfg Co REVALON Revere Copper REVALUM Revere Copper REVO-FILE Mosler Safe Co REVOLVO Frick-Gallagher REX Air Controls Inc REX Chain Belt Co REX Cleveland Heater Co REXALUM Consolidated
General Products Inc
REXGLAS Cleveland Heater Co REXON Coddington E D Mfg REZO Paine Lumber Co Ltd REZO-FOLD Paine Lumber Co RHINO Bridgeport Hardware RHINO Pecora Inc RIBAC Harris Mfg Co RIBFORM Inland Steel Prods RICHBEAD Richkraft Co RICHDUCTS Richkraft Co RICHFLEX Richkraft Co RICHKRAFT Richkraft Co

RICHLITE Richkraft Co RICHMOND Miller Co RICHTUBES Richkraft Co RICHVOIDS Richkraft Co RID-JID Clark J R Co RIDGEGROOVE Masonite Corp RIDGELINE Masonite Corp RIDGOLATOR Klauer Mfg Co RIGID BAK-R-FORM Alsco RIGID BEAD Inland Steel Products Co RIGID-FRAME RIGID-FRAME.
Inland Steel Products Co
RIGID-TEX METAL
Rigidized Metals Corp
RIMCO Rock Island Millwork
RIMCO BAY Rock Island
RIMCO CASEMENT
Rock Island
RIMCO SUN TEN Rock Island Rock Island RIMCO SIX-TEN Rock Island RIMCO SLIDE Rock Island RIMCO VENT AND VIEW Rock Island Millwork Co RING BARB Hillwood Mfg Co RING-TITE Johns-Manville RIPPLE-FIN-COILS McQuay RIPPLEWOOD Georgia Pacific RIST-O-KRAFT Acorn Mfg Co RITE-ON-BLACK Sapolin Paints I. RITE-ON-GREEN Inc RITE-ON-GREEN
Sapolin Paints Inc
RITEWAY Beauty-Dor Inc
RIVIERA General Bathroom
RIW AIRTOX Toch Bros
RIW FLOTOX Toch Bros
RIW FLINTOX Toch Bros
RIW IRONTOX Toch Bros RIW MARINE CEMENT RIW PLUGALEAK Toch Bros RIW RESISTOX Toch Bros RIW ROCKTOP Toch Bros RIW SUPER TOXLOXPORE Toch Bros RIW TORCOMIX Toch Bros RIW TOXEMENT Toch Bros RIW TOXKURE Toch Bros RIW 232 Toch Bros RO-WAY Rowe Mfg Co ROBBINS-TILE Robbins Floor ROBIN HOOD Meridian ROBIN HOOD Meridian
Wood Prods Co
ROCK CORK Johns-Manville
ROCK-SHAKES Johns-Manville
ROCK-TEX Rockcote Paint Co
ROCKER-GLO Pass & Seymour ROCKET Round, David & Son ROCKET Sunbeam Plastics ROCKET 1000 Grant Pulley ROCKET 6000 Grant Pulley ROCKET 0000 Grant Pulley ROCKLATH US Gypsum Co ROCKY CREEK Smith W T ROCOP Rome-Turney Radiator ROE WHITE LINE Roe Justus ROILINE Waukesha Motor Co ROLLINE WAUKESIA MOOF CO ROL THREAD Hillwood Mfg ROL-TOP Kinnear Mfg Co ROLL-AWAY Rudiger-Lang Co ROLL-EZ Junior-Pro Products ROLL-OR-WHEEL Buschman E W Co Inc ROLLAWAY Frantz Mfg Co ROLY-DOOR Morrison Steel Products Inc ROMAN BRONZE Revere Copper & Brass Inc ROMANESQUE Lustro Tile ROMANS Watsontown ROMANY-SPARTAN US Ceramic Tile Co ROMAR Romar Filter Corp ROMEX General Cable Corp ROMEX-UF General Cable ROOF DECK Granco Steel ROOFINSUL Johns-Manville ROOFMASTER Carey Philip ROOFMATE Dow Chemical Co ROOM MATES York Wall ROOMAIRE Young Radiator ROSEMAN TILLER RAKE
ROSEMOLD Midland Brick ROT-STOP Rockcote Paint Co ROTO-GLO Pass & Seymour ROTO-TROWEL Stowe Mfg ROTOWOOD Parkwood Laminates Inc
ROUNDEL Mondial United

Ashestos Product Co

PRESTO-PATCH Savogran Co

ROYAL Alumatic Corp

(Continued on page 276)



New Kentile "Constellation" Vinyl Asbestos Tile in Orion Ivory. Here, accented by burnt orange feature strips and tile in "Designer Palette" Solid Vinyl. Black cabinet base is Vinyl KenCove®.

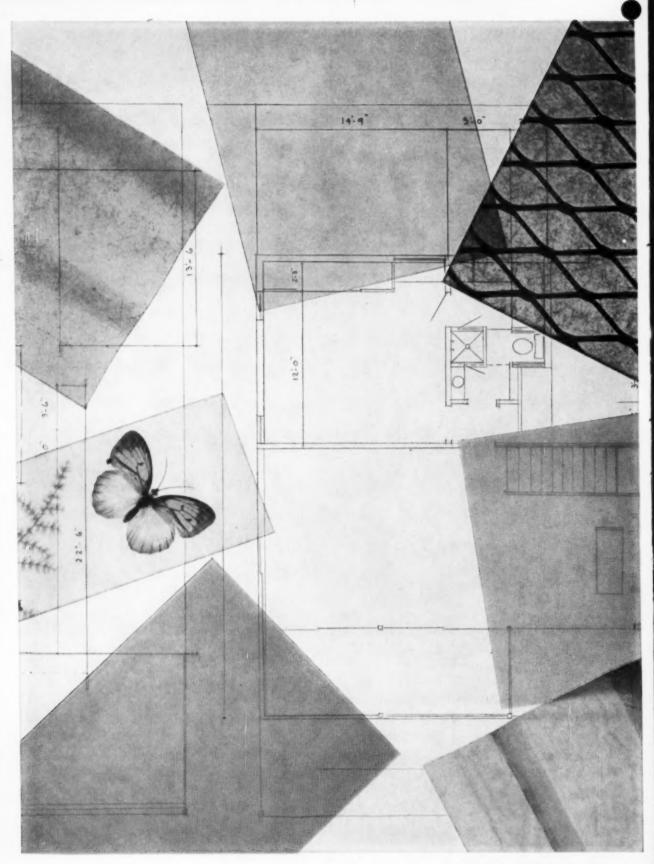
New Kentile "Constellation"... Sparkling Metallics in Low-Cost Vinyl Tile. Metallic-colored chips embedded in translucent vinyl add dramatic beauty to this Kentile Vinyl Asbestos Tile. Using top-quality Kentile Floors in your homes is a sure way to build confidence . . . to assure prospects that all materials and construction are the finest. And you're sure of "no-trouble" flooring that eliminates costly call-backs . . . plus the advantage of creating distinctive flooring designs in your model homes. Speak to your flooring contractor today.

YOU CAN BENEFIT FROM **BIGGEST ADVERTISING** IN THE TILE BUSINESS!

Kentile Floors' outstanding consumer acceptance comes from steady advertising in HOUSE BEAUTIFUL, THE SATURDAY EVENING POST, LOOK, HOUSE & GARDEN plus 12 other leading National publications, as well as the Magazine Sections of 324 Newspapers.

KENTILE FLOORS

There's a Kentile® Floor for every home -in every price range. Over 200 decorator colors in 5 types of resilient tile.



a good start deserves the finishing touch— ALSYNITE

Plan to use the trend-setting translucent panel with the name your prospects know!

Your starts deserve the best — and you'll find that translucent Alsynite can be the effective touch that makes the most of any plan. Alsynite is the translucent panel of light and beauty that has created an entire new trend in contemporary building. Its complete versatility, handling ease and great inherent strength permit you to use it freely indoors and out to achieve individual effects.

Since Alsynite transmits only soft, glare-free light, it provides illumination with privacy. Reinforced with millions of glass fibers, Alsynite combines great strength with light weight — is absolutely shatterproof, won't warp or chip.

Moreover, Alsynite is the premium quality translucent panel you can rely on. It is backed by its own reputation and the world-wide resources and reputation of RCl, one of the great names in chemicals. An additional bonus to you: Alsynite is the name your prospects will recognize, for its story is being put before the consumer through the biggest advertising promotion in the history of the industry.

Alsynite is available in a variety of colors, sizes and textures in corrugations or flat panels. Talk over your requirements with your dealer, listed in the Yellow Pages under plastic products. Or for free literature or promotional aids, write Alsynite, San Diego 9, California, Dept. AB-461.

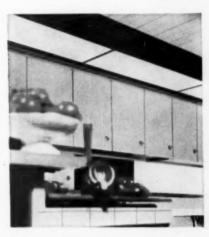




A DIVISION OF REICHHOLD CHEMICALS, INC.



Translucent Alsynite transmits only diffused glare-free light. Provides the ideal solution for skylighting, side-lighting, illuminated panels, contemporary interior dividers and partitions.

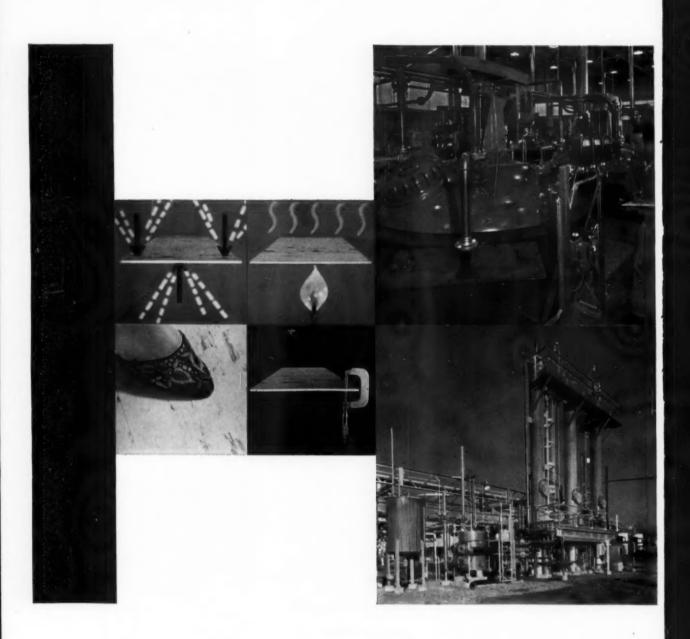


Shatterproof Alsynite won't warp, chip or peel. Performs beautifully in the kitchen as light ceilings, sliding doors. Perfect, too, as codeapproved shower doors or tub enclosures.

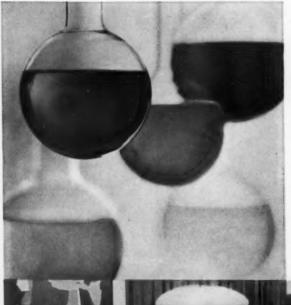


Strong and exceptionally lightweight, Alsynite requires a minimum of structural supports. Can be used in fencing, patio and carport covers to add sales appeal to the finished structure.

Announcing a breakthrough that will affect the entire building



world! Ruberoid Polymerite™ Floor Tile...A New Concept in Flooring



GREASE RESISTANT...STAIN RESISTANT...FLAME RETARDANT ...UP TO TWICE THE WEAR...ALL AT A REMARKABLY LOW COSTI

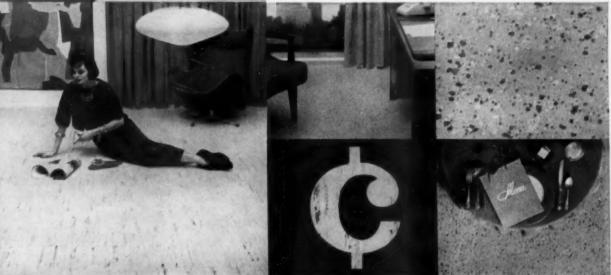
From an intensive program of research and development, Ruberoid proceeds to change all existing concepts of flooring with a tile years ahead of its time. Ruberoid Polymerite Floor Tile has the characteristics of the finest floor tile—all at a remarkably low costl

This astonishingly low-cost, easy-maintenance tile is grease-resistant, stain-resistant, flame-retardant—has optimum flexibility, maximum uniformity, gauge control and appears in 32 vibrantly alive colors.

NATIONAL ADVERTISING TO BACK NEW RUBEROID TILE

Full page, 4-color advertisements will appear in national publications supporting Ruberoid Polymerite Floor Tile. In addition, colorful displays and promotional literature to help builders are also available.

Ruberoid Polymerite Floor Tile finally opens the door to superlative flooring in all your building plans. Be sure that you get the specifications on Ruberoid Polymerite Floor Tile right away. Your Representative will be happy to furnish them. Or, write today.



*Ruberoid Polymerite Tile conforms to Fed. Spec. SS-T-306b for Asphalt Tile and SS-T-307, Grease Resistant, Asphalt Tile; and the flame retardant qualities of Military Specification MIL-T-18830 (Ships).



The RUBEROID Co., New York 36, N. Y.

"For higher quality at lower cost-

HOMASOTE PRODUCTS

-cut building time -cut building costs



Many times quieter than plaster or gypsum! decibel rating of 0.23, at a pitch of 512, one Dry Wall (the pioneer) makes your quiet, healthful, peaceful and free from

Many times faster! Homasote, you cover 112 square feet whole wall) with only one 8' x 14' Big in instead of four "grdinary material". Save time, save money!

Much more economical! masote, you get insulating, moistu-resisting walls that can be eas-or painted. Cut labor costs, materi-blems. Simple, quick and easy to we dee all conditions.

oll this - with 8' x 12' or 8' x 14'
HOMASOTE BIG SHEET HOMASOTE COMPANY, TRENTON 3, N. J.



- Reduce heating and air conditioning costs
- Create a calm and comfortable
- Improve your stereo and TV sonics Protect you from drofts and dampness
- Guard your health

Ask your lumber dealer for free Mamasote Handbook. Hz 72 pages hell you haw—and you save maney

MAXIMUM SPANS, FLOOR JOISTS, 16" o.c. DOUGLAS PR-CONSTRUCTION GRADE

40 Ib. Live Lead

DRY-WALL CONSTRUCTION-

pioneered by Homasote - saves you \$297 or more on your interior walls

We have been pioneering in Dry-Wall Construction since 1916. It is now acknowledged that Homasote is the finest Dry-Wall material—and that the Big Sheets (up to 8' x 14') save you time and money, eliminate all problems and extra costs arising from taping, nail-popping, moldings and interior trim.

The major facts about each Homasote Product are presented in briefest terms-on a colorful Nutshell Card (as pictured above). Handy reference tables-such as maximum spans for floor joists-are included. Ask your Lumber Dealer-or write us-for a set of these cards. Each shows you where you can save money at some point of construction—and still give the home owner higher quality, finer appearance and more lasting satisfaction. And—be sure you always have available a copy of the latest edition of the 72-page Homasote Handbook. Kindly address Department D-3.



TO WIDEN YOUR MARKET...get the full facts about Vacation and Small Homes, Farm and Utility Buildings constructed by the new Versitruss-Panel System. Also-ask about Homasote's Vacation and

Ask your Lumber Dealer about Homasote P.B. Components

HOMASOTE COMPANY

TRENTON 3, NEW JERSEY

Homasote of Canada, Ltd. ● 224 Merton Street ● Toronto 7, Ontario

CRAFTWALL

In the masculine mood! A dramatic den in genuine wood Craftwall paneling. Its beauty is guaranteed for the life of the home. Quality is the sales-maker in today's home market. And nothing says quality faster than genuine wood Craftwall paneling. This friendly room, featured in Better Homes and Gardens, is one beautiful example. Craftwall defies imitation. Its hand-rubbed look is protected by an exclusive finish that resists scuffs and stains, cleans with a damp cloth. No waxing needed. And Craftwall's beauty is guaranteed for life, in writing. Coupon brings details and complete illustrated brochure.



Oak shown above. Choose from 9 different woods. 7' to 12' lengths. You can offer Fire Retardant Craftwall, too.



Weyerhaeuser Company Roddis Division • Marshfield, Wis.

Weyer	haeuser	Company		Roddis	Division
Dept.	AB-461,	Marshfie	ld,	Wiscon	nsin
Please	send co	mplete Ci	raf	twall	
inform	nation for	huilders	to		

FIRM_____ADDRESS_____

CITY____STATE



Plate No. 2002 Ceramaflex is available in 12 handsome random medley patterns to complement any decorating scheme. Shown above is 536 Livorna

A new "sales" force in home building

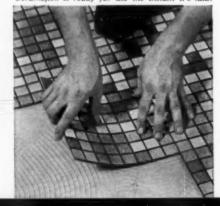
... ROMANY - SPARTAN CERAMIC TILE Builders have long recognized the sales stimulus of ceramic tile in bath and kitchen. Now, with Ceramaflex* resilient ceramic flooring, buyer preference for ceramic tile becomes an even more valuable sales tool. Ceramaflex offers all the advantages of ceramic tile, yet it's quiet and comfortable underfoot. It's ideal for kitchen, bath, family room, utility room or entrance hall. Install it in your next model home—watch it help turn "shoppers" into "buyers". Your ceramic tile contractor or nearby Romany Spartan distributor can provide more information and samples of the entire Romany Spartan line of quality wall and floor tile. United States Ceramic Tile Company, Dept. AB-14, Canton 2, Ohio.

Ceramaflex® is the exclusive product of United States Ceramic Tile Company

UNITED STATES CERAMIC TILE COMPANY

Add just the right touch to walls, too, with Romany Spartan glazed wall tile. There's a range of colors and sizes to suit every taste. Imaginative use of decorative Ceratile produced the unusual effect shown above.

Each 9" x 9" Ceramaflex tile is made up of 64 ceramic mosaics securely bonded in a pre-formed, flexible rubber grid. Installs quickly and easily on, above or below grade. Because it's pre-grouted, Ceramaflex is ready for use the instant it's laid.





Marlite areas: Walls English Oak Random Planks, Yellow Planks, Blue Fleece Pattern. Cabinets Azure Blue Hi-Gloss, English Oak. Counter tops Blue Fleece. Interior Ving Smith, A.I.D.



BEAUTIFUL MARLITE PANELING

...for modern wash-and-wear walls in any room



Fast installation. ¼" thick tongued and grooved Random Planks are 16" by 8' . . . go up with simple clips over furring strips or existing walls.

From the basement recreation room to the attic bedroom, Marlite provides soilproof walls that need no painting or further protection—speed modernization and new construction.

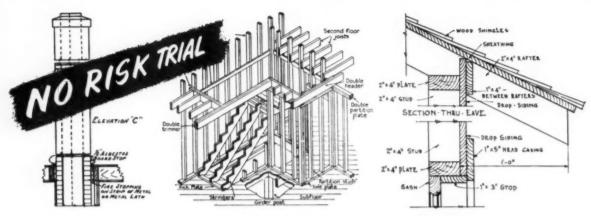
Unlike many "finished" wall panels that dull with age and damage through use, Marlite's soilproof baked melamine finish shrugs off grease, stains, mars—even heat! Dirt just can't penetrate its hard, dent-resistant surface. A once-over-lightly with a damp cloth keeps Marlite bright and new-looking for years. And Marlite's ease of installation over old or new walls saves time and work, assures a better finished job.

Get complete details from Sweet's File, Building Supply News Directory, or write Marlite Division of Masonite Corporation, Dover, Ohio.

Marlite plastic-finished paneling

ANOTHER QUALITY PRODUCT OF MASONITE® RESEARCH

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1961 Printing - Fifth Edition

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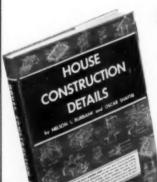
Excavations • Footings and drainage • Foundation forms • Sills • Girders • Joists • Sub-flooring • Exterior wall framing • Interior wall framing • Ceiling Joists • Gable roof • Hip roof • Gambrel roof • Dormers • Siding and shingling • Cornices • Porches • Exterior walls of brick • Interior walls finished in plaster, in plywood • Wall panels • Mouldings for interior trim • Stair construction • Windows • Sash details • Window framing details • Doors and door trim • Hardware used in dwellings • Closets, shelves, built-in equipment • Breakfast alcove • Sewing room • Flooring • Chinneys and fireplaces • Mantels and seats • Outdoor fireplaces • Scaffolds • Garages • Insulation • Arches and gates • Lattice porch, lattice trellis • Garden benches, tables • Fences • Barns • Feeders and nests • Septic tank • Painting and finishing • Heating systems • Air conditioning systems • Prefabricated houses • Useful information for home building materials.

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THE NEWEST NAME
IN FINE KITCHEN
CABINETRY:

culptured spicewood.

CRAFTED BY

i-XL

Custom-crafted kitchen cabinets—with the beauty and the workmanship usually found only in fine furniture. See how Sculptured Spicewood doors and drawers are fully paneled. No applied moldings are used. And, notice how the lustrous baked lacquer finish deepens and enriches the sculptured beauty. This is the kind of kitchen your discriminating customers have been asking for—and now you can supply them. The I-XL Furniture Co., Inc., Goshen, Indiana.



The unmistakable look of luxury.

Made even more desirable by thoughtful "housewife-approved" conveniences! Sculptured Spicewood has a beauty that works for delightful living. Full paneling is an immediately identifiable quality feature. No applied moldings are used. Instead, solid core doors and drawers are fully paneled and framed by expert cabinetmakers. The lustrous lacquer finish stays rich and beautiful with a minimum of care. Behind each door and in each drawer are many thoughtful and unique conveniences that will make a homemaker's hours in the kitchen easier, more pleasant and much more satisfying.





Adjustable shelves—an important feature that sells women on Sculptured Spicewood wall cabinets. Shelves can be moved up or down, in seconds and locked in place firmly.



Pull-out shelves are standard equipment in all Sculptured Spicewood base cabinets. Shelves slide out and back smoothly and easily. Another "housewife-approved" convenience.



Sta-Close* drawers. I-XL trademarked feature. Closes drawers quietly and firmly, then keeps them neatly shut. It completely eliminates the nuisance of partly-closed drawers.



Glowing beauty for family and dining rooms!

The elegance that Sculptured Spicewood brings to the kitchen can be extended beautifully and naturally to family and dining rooms and to other areas of the house. Standard cabinets can be grouped to form lovely built-in or free-standing arrangements. Many attractive furniture groupings are available, including bars, hutches and sideboards.







Added touches of elegance!

The beauty and versatility of Sculptured Spicewood is clearly demonstrated by this smart foyer setting. Standard cabinets are arranged in sequence and highlighted with a ceramic top against wood and fabric panelling. The soft gleam of the baked and hand rubbed lacquer finish provides the mellow richness of fine furniture. Sculptured Spicewood units offer limitless possibilities for unusual treatments throughout the home.



Sculptured Spicewood, I-XL Furniture Co., Inc., Dept. 618, Goshen, Indiana Gentlemen: You're right, I think I should know more about Sculptured Spicewood.

Please have selection and specifications on Sculptured Spicewood.

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COMPANY NAME
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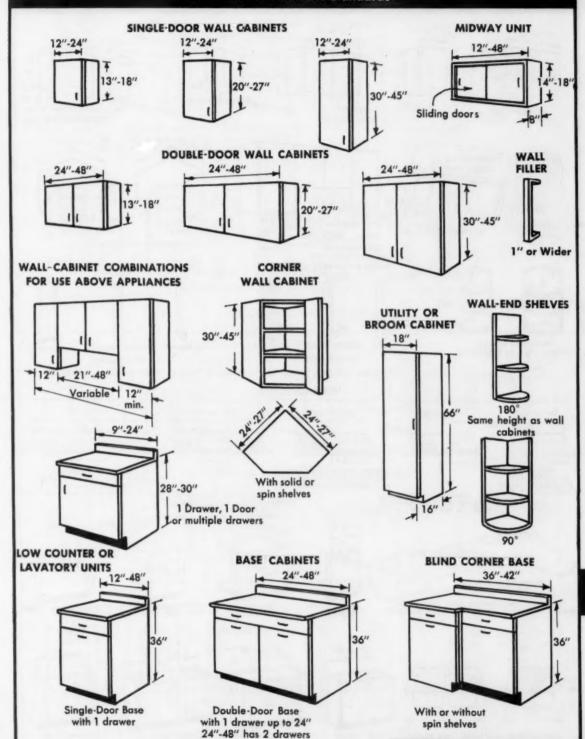


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MILLWORK, CABINETS

Wood Kitchen Cabinet Standards

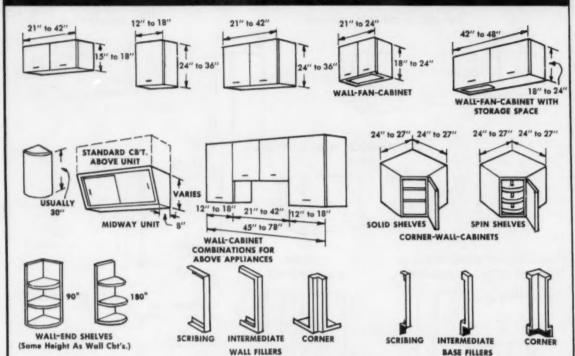


Courtesy National Institute of Wood Kitchen Cabinets

Wood kitchen cabinets can be obtained in any 3" module between min. and max. dimensions shown.

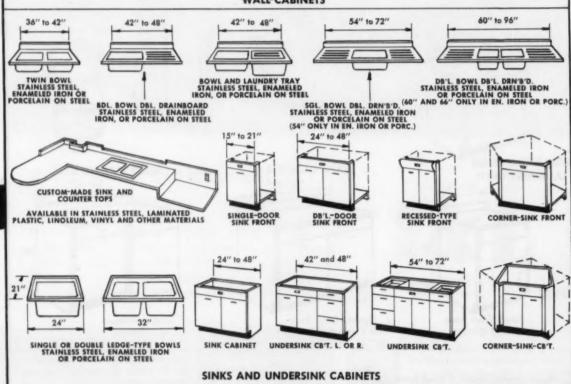


Steel Kitchen Cabinet Standards



BOTH WALL AND BASE FILLERS RANGE IN WIDTH FROM 1" TO 9" IN VARIABLE HEIGHTS

WALL-CABINETS

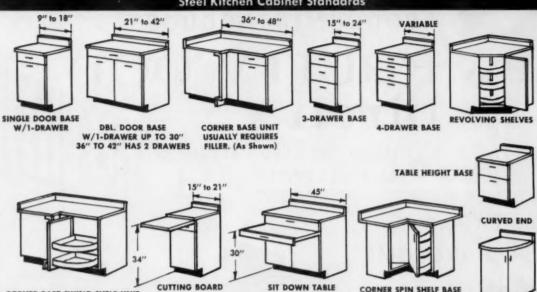


Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

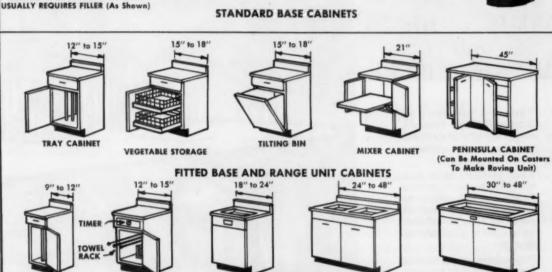
MILLWORK, CABINETS

CORNER SPIN SHELF BASE

Steel Kitchen Cabinet Standards







2 BURNER UNIT WITH

CUT-OUT IN PANEL

Courtesy Steel Kitchen Cabinet Manufacturers Assoc.

TOWEL DRYER

HANDY UNIT

CORNER BASE SWING SHELF UNIT



2-2 BURNER UNITS WITH 2 CUT-OUTS IN PANEL

APRIL 1961

1-3 OR 4 BURNER UNIT

WITH OR WITHOUT CUT-OUT IN PANEL



Kitchen Kompact

PROUDLY INTRODUCES

new FRUITWOOD birch



ATTRACTIVELY PRICED

NOW! TWO HANDSOME FINISHES -WARMTONE BIRCH and FRUITWOOD BIRCH

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Write today for new literature and prices on Kitchen Kompact's new FRUIT-WOOD birch and the full KK line.





THE "BEST BIRCH" LINE hen Kompactino.

JEFFERSONVILLE, INDIANA



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Mineral Wells, Texas





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Design patent pending

CONSOWELD

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CONSOWELD CORPORATION, Wisconsin Rapids, Wisconsin

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the kitchen that's selling houses in today's market



For many years, and especially in today's market, the finefurniture craftsmanship, beauty of design and finish of Yorktowne Kitchens have proved to be powerful incentives in the selling of thousands of homes.

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For kitchens with more proved house-selling incentives, be sure to see the full Yorktowne line for '61. Illustrated folders and detailed specification sheets await your inquiries. Write today. All Yorktowne kitchens are offered in 150 different cabinet models in stock and ready for delivery from more than 60 warehouses—coast to coast. Products of Colonial Products Co., Dallastown, Pa.



"world's largest producer of fine wood kitchen cabinets"

HARDWARE, BUILDING SPECIALTIES

Wire Nail Estimating Data

1000 Feet Size and Kind of Material Board	Trade	Lbs. of Nails Required			Length of	No. of Nails to Ea.
Measure	Name	Centers	Centers	Centers	Nails	Bearin
1 x 4 Boards and Shiplap	8d common	60	48	30	21/2"	2
1 x 6 Boards and Shiplap	8d common	40	32	20	21/2"	2
1 x 8 Boards and Shiplap	8d common	31	27	16	21/2"	2
1 x 10 Boards and Shiplap	8d common	25	20	13	21/2"	2
1 x 12 Boards and Shiplap	8d common	31	24	16	21/2"	3
1 x 4 D&M Blind Nailed	8d common	30	24	15	21/2"	1
1 x 6 D&M Blind Nailed	8d common	20	16	10	21/2"	1
1 x 8 D&M Blind Nailed and 1 Face Nail	8d common	31	27	16	21/2"	2
1 x 10 D&M Blind Nailed and 1 Face Nail	8d common	25	20	13	21/2"	2
1 x 12 D&M Blind Nailed and 1 Face Nail	8d common	21	16	11	21/2"	2
2 x 4 to 2 x 16 Framing	20d common	20	16	10	4 "	
•	16d common	10	10	6	31/4"	
	10d common	8	6	4	3 "	-
3 x 4 to 3 x 14 Framing	60d common	30	25	15	6 "	
2 x 6 D&M Flooring	20d common	35	27	18	4 "	1
2 x 8 D&M Flooring	20d common	27	20	14	4 "	1
1 x 4 Drop Siding.	7d siding	45	35		21/4"	2
1 x 6 Drop Siding	7d siding	30	25		21/4"	2
1 x 8 Drop Siding	7d siding	23	18		21/4"	2
1/2 x 4 Bev. Siding	6d siding	23	18		2 "	1
½ x 6 Bev. Siding	6d siding	15	13	-	2 "	1
1/4 x 8 Bev. Siding	6d siding	12	10		2 "	1
¾ x 10 Bev. Siding	7d siding	45	35		21/4"	2
% x 12 Bev. Siding	7d siding	60	50		21/4"	3
¼ x 4 Ceiling	8d finish	18	14	9	21/2"	1
½ x ½" Ceiling	6d finish	11	8	6	2 "	1
%" Finish Lumber	8d finish	25	12	13	21/3"	2
1%" Finish Lumber.	10d finish	12	10	6	3 "	2
1 x 3 Flooring, Soft Wood	8d floor breds	42	32	21	21/2"	1
1 x 4 Flooring, Soft Wood	8d floor brads	32	26	16	21/2"	1
1 x 6 Flooring, Soft Wood	8d floor brods	22	18	11	21/2"	1
% x 1½ Flooring, Bard Wood	4d casing	13	10	-	134"	1
% x 2 Flooring, Hard Wood	4d casing	11	8	-	11/4"	1
1% x 1 1/4 Flooring, Hard Wood	7d casing	27	20	9119	21/4"	1
1% x 2½ Flooring, Hard Wood	7d casing 7d casing	20	14	0110	21/4"	1

1 x 2 Furring on Brick Walls-100 Lineal Ft.-20d Cut Nails, Requires 51/4 lbs.

Base Per 100 Lineal Ft.

Sides of Trim, Per Side of Inside Trim.

48" Wood Lath Per 1000 Lath.

Metal Lath Per 100 Sq. Yds.

or Metal Lath Per 100 Sq. Yds.

36" Gypsum Lath, Per 100 Sq. Yds.

1/4" Plaster Board, Per 100 Sq. Yds.

136" Wall Board, Per 1000 Sq. Ft.

1/4" Wall Board, Per 1000 Sq. Ft.

36" Wall Board, Per 1000 Sq. Ft.

BATTENS Will Require 1/2 Lbs. 4d Finish Nails Per 100 Lineal Feet. For Various Styles of Wallboards, See Manufacturer's Specifications for/Recommended Nailing.

8d Finish Requires 1 Lb. 16" on Centers.

4d Finish 6d Finish

Requires About 1/4 Lb. Total

8d Finish

3d Fine Requires 7 Lbs.

1" Staples Requires 12 Lbs.

1½" No. 12 Hook Head Nails Requires 15 Lbs.

1½" x 13 Gauge—½" Heads Requires 10 Lbs. Smooth Diamond Points.

1" x 13" Gauge-Ki" Heads Requires 10 Lbs.

Smooth Diamond Points.

3d Flat Head Nail Requires 5 Lbs.

4d Flat Head Nail Requires 9 Lbs.

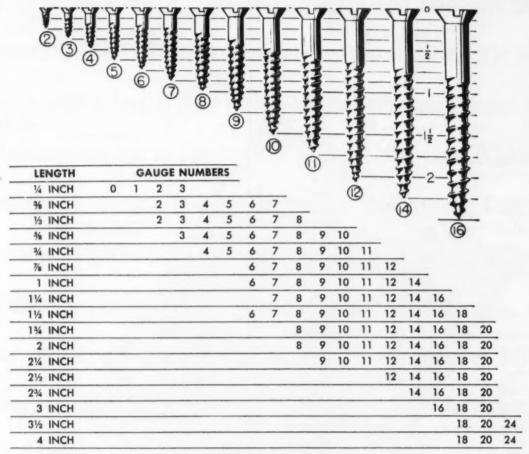
HARDWARE, BUILDING SPECIALTIES

Aluminum Nails

BUILDING MATERIAL	COVERACE	OF	TVDE OF NAM	0.11105	SIZE		CENTERS	16" CE	NTE
BUILDING MATERIAL	COVERAGE	NAIL	TYPE OF NAIL	GAUGE	INCHES	NO.	LBS.	NO.	LB
1/3" x 6" Bvl. Sdg.	1000 bd. ft.	1%"	6d Wd. SdgSkr. Hd.	12	1764	2000	3.3	1500	2.
¼" x 8" Bvl. Sdg.	1000 bd. ft.	21/4"	7d Wd. SdgSkr. Hd.	11%	1764	1500	3.2	1125	2.
%" x 8" Bvl. Sdg.	1000 bd. ft.	2%"	8d Wd. SdgSkr. Hd.	10%	3764	1500	4.7	1125	3.
%" x 8" Bvl. Sdg.	1000 bd. ft.	2%"	10d Wd. Sdg.—Skr. Hd.	91/2	%₄	1500	5.1	1125	3.
1/4" x 6" Bvl. Sdg.	1000 bd. ft.	11/4"	6d Wd. SdgCsg. Hd.	12	N ₄	2000	3.3	1500	2
¾" x 8" Bvl. Sdg.	1000 bd. ft.	21/4"	7d Wd. SdgCsg. Hd.	111/2	Na	1500	3.2	1125	2
%" x 8" Bvl. Sdg.	1000 bd. ft.	2%"	8d Wd. SdgCsg. Hd.	101/2	36a	1500	4.7	1125	3
¼" x 8" Bvl. Sdg.	1000 bd. ft.	21/4"	10d Wd. SdgCsg. Hd.	91/2	№	1500	5.1	1125	3.
Cedar Shakes—Single Course	3 squares	11/4"	Cedar Shake	131/4	1/10	1680	1.3		_
Cedar Shakes—Single Course	3 squares	1%"	Cedar Shake	12%	%a	1680	2.3		
Cedar Shingles (5 in. expos.)	3 squares	11/4"	3d Cedar Shingle	14	350	3150	2.1		
Asbestos Siding—Face NIg.	5 squares	1%"	File Grip Asb. Sdg.	.114	.185	900	1.1		
Asbestos Siding-Face Nlg.	5 squares	134"	File Grip Asb. Sdg.	.114	.215	900	1.3		
Asbestos Siding-Face Nlg.	5 squares	1¼"	Asbestos Siding	13	%	900	0.7		
Asbestos Siding—Face Nlg.	5 squares	134"	Asbestos Siding	121/2	₹6	900	1.0		
Asbestos Siding—Cncd. Nlg.	5 squares	11/4"	Asbestos Siding	11%	Ku	900	1.2		_
Asbestos Siding—Cned. Nlg.	5 squares	1/2"	Asbestos Siding	111/2	360	900	1.3		
Asbestos Siding—Cncd. Nlg.	5 squares	1%"	Asbestos Siding	111/2	Ж.	900	1.6		_
General Purpose		3/411	Standard Shingle	121/2	% ₂				_
Barn Batts, Joist, Lining, etc.		11/4"	3d Standard Shingle	121/2	%a				
Insulating Siding—Light	5 squares	2 "	Insul. SdgChk. Hd.	111/4	%a	1680	2.4		_
finish for face nailing	60 Butt. Crs.	21/1"	Insul. SdgChk. Hd.	10	3/10	600	2.3		
Insulating Siding—Dark finish	60 Butt. Crs.	21/2"	Insul. Sdg.—Chk. Hd.	10	% 1	600	2.3		
for mortar joint nailing	5 squares	2 "	Insul. Sdg.—Chk. Hd.	11%	3/10	1680	2.4		
Gypsum Lath	1000 sq. ft.	1%"	Gypsum Lath	121/2	%a	1534	1.6		
Gypsum Lath	1000 sq. ft.	11/4"	Gypsum Lath	121/2	No	1534	1.7		
Gypsum Lath	1000 sq. ft.	11/2"	Gypsum Lath	12	N ₆	1534	2.1		_
Roll Roofing	500 sq. ft.	3/610	Roofing	10	34	860	1.3		
Sq. Tab Shingles	3 squares	1 "	Roofing	10	360	980	1.6		
Sq. Tab Shingles	3 squares	11/4"	Roofing	10	3%	980	2.0		
Sq. Tab Shingles	3 squares	1%"	Roofing	10	3/4	980	2.4		
Sq. Tab Shingles	3 squares	134"	Roofing	10	%a */	980	2.7		
Sq. Tab Shingles Sq. Tab Shingles	3 squares 2 squares	21/3"	Roofing Roofing	10	3%s 3%s	980 650	2.9		
Aluminum Roofing	5 squares	134"	Rfg. w/w/att. Scr. Gp.	.145	3/4	525	1.8		
Aluminum Roofing	5 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	3/4	525	2.0		
Aluminum Roofing	10 squares	1%"	Rfg. w/w/att. Scr. Gp.	.145	3/4	1050	3.6		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Scr. Gp.	.145	364	1050	4.0		
Aluminum Roofing	10 squares	21/2"	Rfg. w/w/att. Scr. Gp.	.145	34	1050	4.8		
Aluminum Roofing	10 squares	1%"	Rfg. w/w/att. Pln. Shk.	10	3%	1050	3.4		
Aluminum Roofing	10 squares	2 "	Rfg. w/w/att. Pln. Shk.	10	¾ 6	1050	4.0		
Cno	cd. Nlg Conce	ed Siding aled Nailing	Csg. Hd.	- Casing H		ding —	Sinker He	ead	
Ser	. Gp. = Screw	Grip	Chk. Hd.	- Checked	Head				

HARDWARE, BUILDING SPECIALTIES

Wood Screw Data



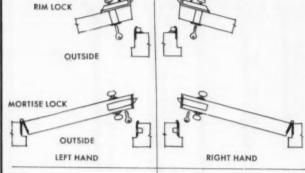
WOOD SCREW SIZES

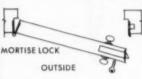
		Fractional Diameter Nearest 64th	Threads per Inch	Maximum Head Diameter		PILOT OR ANCHOR HOLE SIZES				
	Basic					SOFTWOOD		HARDWOOD		
Gauge Nos.	Decimal Diameter				Drill Number	Slotted Screws	Phillips Screws	Slotted Screws	Phillips Screws	
0	.060	Ж ₆ —	32	.119	52	75		70		
1	.073	%4	28	146	47	71		66		
2	.086	%++	26	.172	42	65	75	56	70	
3	.099	%ı+	24	.199	37	58	71	54	66	
4	.112	364+	22	.225	32	55	65	52	56	
5	.125	1/4-	20	.252	30	53	58	49	54	
6	.138	%	18	.279	27	52	55	47	52	
7	.151	%n-	16	.305	22	51	53	44	49	
8	164	%n+	15	.332	18	48	52	40	47	
9	.177	11/4-	14	.358	14	45	51	37	44	
10	.190	×4+	13	.385	10	43	48	33	40	
11	.203	13/sa	12	.411	4	40	45	31	37	
12	.216	360-	11	.438	2	38	43	30	33	
14	.242	13/4+	10	.491	D	32	40	25	31	
16	.268	1764+	9	.544	1	29	38	18	30	
18	.294	17/4-	8	.597	N	26	32	13	25	
20	.320	3/4-	8	.650	P	19	29	4	18	
24	.372	36-	7	.756	V	15	26	1	13	



Hardware Details









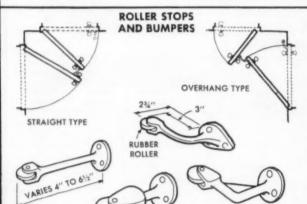




SPECIFY WHETHER IN- OR OUT-OPENING



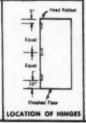




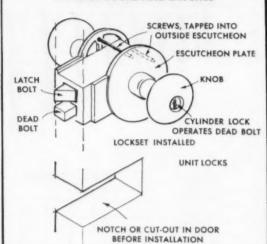


HOW TO SPECIFY HINGES
Number (in Parts) - Either Belt or Onto
Bearings of Required - Type of Top. Type of Screen - Type of Hinge - Metal:
- Height - Width (Required Only for Full
Northas Hingas) - Weight (Rappler or
Hawy) - Either

TEMPLATE HIPGES are Made It Standard, Templates or Patterns (Usual) in Accordance with Government Standwrite to freeze Eaact Malching of Hinge and its Screw Holes with Metal Dearr and Metal Jembs Fabricated by Other Manufactures.



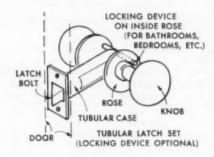
TYPES OF LOCKS AND LATCHES

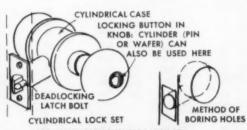


BORE-IN LOCKS AND LATHES (TUBULAR AND CYLINDRICAL TYPES)

CYLINDER LOCK ON OUTSIDE







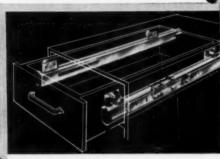
ALSO AVAILABLE AS SIMPLE LATCH SET AVAILABLE WITH LONG (5", 7", 10" ETC.) BACKSET

Courtesy National Builders Hardware Association

INTRODUCING...new, low cost BARCLITE XR1000 Fiberglass Panels ... give more light...last years longer! New scientific formula makes BARCLITE XR1000 absolutely weather-resistant! The reason: an improved Acrylic base resin_tougher, stronger, longer lasting than anything you've ever known. And panel after panel is absolutely uniform ... identical in color, clarity, thickness, quality! Colors stay clearer, brighter, purer! Resists rust, mildew, fading. Shatterproof BARCLITE XR1000 takes on storms, stress, years of wear. (Write for results of 5-year outdoor torture tests!) Exclusive Infrablok® process insulates against heat and cold. Light in weight, easy to handle-means less installation time and costs for you. Maintenance-free! Perfect outdoors, indoors-for patios, carports, awnings, interior partitions, skylighting, glazing, roofing wherever you want light plus strength! BARCLITE XR1000 at your lumber dealer, or write: Barclite Corp. of America (an affiliate of Barclay Mfg. Co., Inc.) Dept. AB4-XR, Barclay Building, New York 51.

A complete line: Heavyweight • Lightweight Full-extension • Under-drawer • Single-track Double-track • Self-closing.





No. 1400 Ball-Bearing, Full-Extension Drawer Slide

Improved to provide even better floating extension for heavy drawers. Super Oilite Bearings positively eliminate sticking, jamming, sag or breakdown even when drawers are fully extended under heaviest load. Heavy gauge, zinc-plated steel. Unquestionably the finest drawer slide on the market. Recommended for loads of 100 pounds.

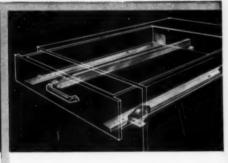
The important things to remember about K-V They're easy to install! Won't sag or stick!





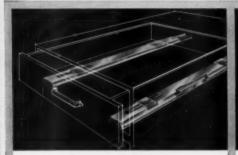
No. 1100 Lightweight Drawer Slide

Ideal for kitchen and other home cabinets. Bright zinc-plate finish. Long life of smooth, quiet action guaranteed by $\frac{1}{2}$ " nylon rollers. Engineered for easy positioning; no measuring, marking or templates required. Only $\frac{1}{2}$ " clearance needed on each side of drawer. Zinc-plated finish. Recommended for loads to 50 pounds.



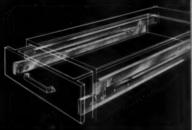
No. 1150 Under-drawer Slide

Under-drawer design allows you to use otherwise wasted space between drawers; hardware is completely concealed when drawer is open. Selfaligning drawer tracks for easy installation—even on existing drawers. Zinc-plated finish. Recommended for loads to 50 pounds. Large nylon rollers for quiet action, smooth operation and long, trouble-free service.



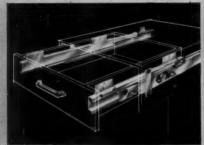
No. 1500 Under-drawer Extension Slide

Designed for use where side clearance space is not available. Ideal for narrow spaces, built-in units, deep storage drawers, built-in record players or pull-out typewriter shelves. Zinc-plated finish, on heavy gauge steel, ball-bearing rollers for smooth, frictionless operation. Recommended for loads of 50 pounds.



No. 1600 Self-closing Drawer Slide

Operates smoothly and quietly on lifetime ball bearing nylon rollers. Drawer closes automatically when within six inches of closing; may be removed easily at full extension. Stopping points protected with rubber bumpers; slides and bearings permanently lubricated. Made of heavy gauge, zincplated steel. Recommended for loads up to 100 pounds.



No. 1700 Full Extension Drawer Slide

Designed for use in executive desks, file cabinets and drawers containing heavy precision equipment. Superior construction insures a lifetime of smooth, easy operation, allows full use of all the drawer space even under heavy weights. Made of heavy gauge, zinc-plated steel. Recommended for loads over 100 pounds.

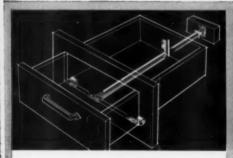
drawer slides are: Always operate smoothly!



KNAPE & VOGT MANUFACTURING COMPANY

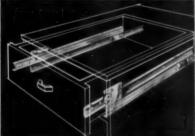
Grand Rapids, Michigan

Manufacturers of adjustable shelf hardware, sliding and folding door hardware, closel and kitchen fixtures, Tite-Joint Fasteners and Handy Hooks for perforated board.



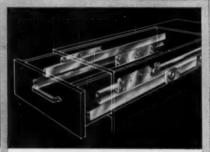
No. 1175 Single-track Extension Under-drawer Slide

A new low cost, single-track, underdrawer slide that meets requirements of any household drawer. Fits any length or width drawer; no measuring, marking or templates required. Bright zinc electroplated finish for corrosion resistance; Teflon Roll-ezy bearings for quiet, smooth operation. Recommended for loads to 50 pounds.



No. 1300 Lightweight Extension Drawer Slide

The most popular, most widely used drawer slide on the market. Newly improved, with nylon ball bearing wheels for noiseless, smooth operation every time. Especially economical, easily installed. Will not jam or stick even under maximum load at full extension. Bright zinc-plated finish. Recommended for loads to 50 pounds.



No. 1390 Lightweight Full Extension Drawer Slide

Fits all drawers from 15" to 29"deep, provides excellent full-extension drawer range for a variety of cabinet styles. Durable zinc-plate finish, rugged construction. Long, quiet life assured by 1/16" nylon rollers. Lifts out easily for cleaning when fully extended. Recommended for loads to 50 pounds, fully extended.

FOR DOORS, DRAWERS, WINDOWS-GRANT SLIDING HARDWARE THROUGHOUT THE HOUSE



SLIDING DOOR HARDWARE

1000/6000 Reversible Rocket Sliding Door Hardware-load capacity: up to 75 lbs./door . for 34" to 134" single, bi-parting and bypassing doors . inexpensive standard duty line with adjustable double wheel carriers

Rocket 1000/6000 two wheel hardware is an excellent line of moderate duty hardware. Rockerarms keep nylon wheels in constant contact with track. Choice of aluminum or aluminum fascia track. Reversible hardware set for 34" or 136" doors available. All adjustments. Packaged in sturdy tubes with color-coded labels.



SLIDING DOOR HARDWARE

7000 Sliding Door Hardware - load capacity: up to 100 lbs./door * for 36" to 136" doors, single. bi-parting and bypassing . each door rides on eight rollers . moderate cost standard duty hardware, fully adjustable

Widely recognized as the foremost line of moderate-duty sliding door hardware. Twelve com pletely adjustable sets from which to select, with aluminum or aluminum fascia track. Doors move on unique four-wheel carriers (eight per deer) with rocker arms for constant track contact. Luxurious operation at minimum cost-with every advantage of highest-priced moderate duty hardware.



DRAWER SLIDES

305/306 Drawer Slides - load capacity: up to 50 lbs./pair . min. space at each side of drawer . continuous ball bearing action . 12" to 36", every inch

Grant Slides are designed for use where full extension and continuously smooth operation necessary. Separate rollers permit drawer to be lifted out easily. Travel can be controlled by placement of front roller, (interchangeable drawers can be readily transferred from storage into



DRAPERY HARDWARE

2200 Brapery Hardware - medium-heavy duty hardware . entirely non-corrosive - aluminum track and parts, nylon carriers . wall or ceiling installation . finest drapery hardware available The finest drapery hardware available anywhere - yet moderately priced for the mass market. Highest quality line, completely rust-proof since every part is either aluminum or nylon. No metalto-metal contact between moving parts and all parts are re-inforced for lifetime service. Many features included that are unavailable in com-



DOOR POCKET FRAME

Grant Sliding Boor Pocket Frame - load capacity: up to 100 lbs. . for 34" to 134" doors. 6'6" to 6'8" high, 2'0" to 3'0" wide . fits standard 2 x 4 construction

Designed to speed sliding door installations - and to insure accuracy in every case. Complete installation takes less than twenty minutes! For all 2 x 4 construction, regardless of wall material thickness. Grant 7000 hardware moves door smoothly and quietly on aluminum track. Sturdily and compactly packaged.



CLOSET ROD

Grant "Golden" Closet Red-gold anodized aluminum track . unique self-lubricating black nylon carriers - sturdy end brackets - center support for longer lengths - most functional, beautiful closet Grant's Gold anodized closet rod has intrinsic qualities of beauty and function unequalled by any other such product. Black nylon carriers gently but efficiently glide clothes at a touch. These carriers can "snap" in, permitting the addition of extra carriers (for extra clothes!) as needs require. The Grant Closet Rod will support even the heaviest of loads safely. And, for special widths, it can be simply cut to size.



FOLDING PANEL HARDWARE

2500 Felding Panel Hardware - load capacity: up to 35 lbs./panel • for 34" to 136" doors; either two door (one way) or four door (bi-parting) installation . inexpensive standard duty hardware. fully adjustable

Sturdiest hardware, full of selling features, including: full range of sets, all adjustments, reinforced parts and jamb bracket (nething attaches to floor), fast installation, specially designed lead carriers for constant track contact and the new passageway set with completely hidden hardware.



Grant Sliding Hardware is naturally suited for application to "built-ins"...for sliding doors or drawers in linen closets, kitchen cabinets, multi-purpose wall units, standing clothes closets and other cabinetry, no wider range of such hardware is produced by any manufacturer, for application throughout the house.

R*ANT SLIDING HARDWARE*



GRANT PULLEY AND HARDWARE CORPORATION

1 High Street, West Nyack, New York • 944 Long Beach Avenue, Los Angeles 21, Cal.

sliding door hardware · drawer slides · drapery hardware · pocket frames · pulls · special sliding hardware

NEXT STEP...

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America's largest selling residential locksets

KWIKSET SALES AND SERVICE COMPANY.

You'd think so, the wby KWIKSET speeds installation time. Take the BIT-JIG with built in tools. Set in place, tighten, and drill; latch and lockset holes, are precision bored in

ROUND Imprates mortising

new KWIKSET FACE LATCH schews and ast press into

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it's in to stay. "Installs Itself?" Not yet But we're getting there!

Cut Your Installation and Call-Back Costs With This New Dry Wall Nail

Read How It Resists Nail Popping Under Any But Extreme Conditions

Sheffield's newly designed dry wall nail not only saves you labor and material costs but also contributes to your reputation for quality construction. Here's why:

Cuts material and labor costs

The new, patent applied for, Sheffield nail will fasten 25% more dry wall per cwt. than its .098 predecessor. That's because the new nail, with its shank diameter reduced to .094, contains more nails per cwt.

The nub in the conical head and the modified ring shank make for safer handling and faster, easier nailing — can save one hour's labor per house.

Designed to resist nail popping or bulging

Annular rings are placed at the midsection of the shank to concentrate the holding power where it is needed. It's a known fact that wood dries from outside to center. When it does these rings tighten in the wood instead of loosening—and thereby prevent popping of nails or bulging of the heads.

Because the nail moves with the studs and joists as they dry, the tension of the countersunk nail head is maintained. The dry wall is held tight against the lumber.

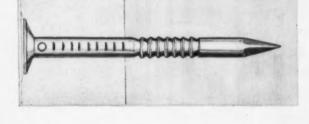
The nub in the center of the head takes the force of the hammer blows. It protects the thin conical head from distortion and increases the bond of the sealing compound to steel.

The conical head is extra thin so that the final hammer blow countersinks it with its rim flush with the wall surface.

Breaking of paper surface is virtually eliminated and smooth taping of the joints is made easy.

For full information, get in touch with your Sheffield dealer, nearest Sheffield office or write: Sheffield Division, Armco Steel Corporation, Sheffield Station, Kansas City 25, Missouri.

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ARMCO Sheffield Division

PERFECT FOR TRADITIONAL HOMES . . .

French Glassic



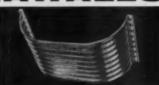
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MEDALIST HARDWARE DIVISION NATIONAL LOCK COMPANY Rockford, Illinois

SPC

Lux-Right AREAWALLS

The Original and Best



You guarantee it. We back you up. SPC does its own deep corrugation for greater strength. SPC adds roll top edges for complete safety. SPC heavy galvanizing protects against rust and corrosion. That's why SPC sets the pace in areawalls.

You can Sell our Products with Confidence . . . meet and

beat all competition.

All standard sizes and styles or special sizes made to order for any installation. Three grades to choose from:

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- 3. Thrif-T, lower in price but made to last

SPC Areawall Guard



Universally adaptable for most makes of areawalls, Installs in seconds, Constructed of heavy cross weave steel wire on a frame of rolled bar steel. Hot dipped zinc coated after fabrication to insure freedom from rust and corrosion. Cross weave construction pre-vents loss of light yet easily supports the weight of running children, adults, and power lawnmowers.

Write for full information on Areawalls and Guards

Saint Paul Corrugating Co.

South End Wabasha Bridge, St. Paul 7, Minnesota

FOR ALL-AROUND FASTENING ON LARGE CONSTRUCTION AND INSTALLATION WORK



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YOU CAN'T PULL 'EM OUT! STRONGER THAN THE CONCRETE

• Engineered performance that will save you money—faster, more accurate drill-ing into the hardest masonry materials . specially designed teeth . . . casehardened, zinc plated expander plug. Install with hand or impact ham

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FOR USE IN CONCRETE STONE BRICK



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THE WORLD'S MOST ADVANCED DISHWASHER!

...and it cuts builder costs 5 ways!

LING-TEMCO DISHWASHER

This revolutionary dishwasher gives you unprecedented freedom to plan dozens of exciting new saleable kitchen ideas:

Install it on the wall, on or below the counter, below the range burner top, recessed in the wall. You can even float it as a room divider!

YOU SAVE ON PLANS! No costly plan changing to add the Ling-Temco. It fits any plan you already have.

YOU SAVE AT LEAST \$60 IN FLOOR SPACE because there's no floor space needed. Eliminates 4 Square feet every other dishwasher requires!

YOU SAVE INSTALLATION COSTS! The exclusive L-T Couplermatic permits pre-installation of plumbing connections. Slide the dishwasher in any time later.

YOU SAVE DRAIN PUMP COSTS!
Most locations require no drain pumps.
AND YOU SAVE BIG MONEY ON THE
DISHWASHER ITSELF! It's the most competitively priced dishwasher on the
market!



NOW TURN THE PAGE AND LEARN 7 REASONS WHY WOMEN WILL BUY THE HOME WITH THE LING-TEMCO DISHWASHER IN IT!



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7 REASONS WHY Women Love The Ling-Temco Dishwasher

...and will be sold by the kitchen that has it!

What woman wouldn't love the ONLY dishwasher that exclusively...

- 1. WASHES DISHES IN ½ THE TIME because it fills, washes and drains continuously. Only Ling-Temco does the complete dishwashing job in 25 minutes!
- 2. DRIES DISHES FASTER because dishes are steam-purified by a self-contained steam generator—then flash dry when the air hits them! Now, just stack 'em and store 'em!
- 3. WASHES DISHES CLEANER because all available washing power is directed in a solid Wave-Of-Water. It's the only dishwasher that doesn't dissipate its washing action in a sprinkle against all the dirty dishes at one time.
- 4. GUARANTEED "NO WATER SPOTTING OR STREAKING" of dishes, glasses or silverware because the Ling-Temco produces its own distilled water containing no water-spotting minerals.
- 5. ELIMINATES FAUCET PRE-RINSING because there's no food particle feed-back. Particles are trapped and drained away constantly by L-T's unique filtering system. The Ling-Temco dishwasher changes water 7 times . . . and in only 12½ minutes.
- 6. STEAM PURIFIES DISHES HOSPITAL-CLEAN because the L-T fogs purifying steam over dishes for 12½ minutes! Dishes, pots, pans, baby bottles are not only clean—but steam purified!
- 7. LING-TEMCO SAVES HOMEOWNER TIME, SPACE, MONEY, WATER, MAINTENANCE AND INSTALLATION.

Available in 3 compact sizes for 6, 10 and 15 place settings (NEMA Standards) in brushed stainless steel and kitchen decorator colors.

No woman can resist it ... or the kitchen it's in.

TIP TO BUILDERS:

Remember – when you sell the woman, you've sold the home. And the Ling-Temco sells the woman! Fill Out And Mail This Coupon Now!

LING-TEMCO ELECTRONICS, INC. Temco Industrial Division P.O. Box 6191, Dallas 22, Texas

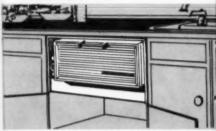
Show me how your unique, easy-to-install Ling-Temco Dishwasher can help me create excitingly new and different kitchens that will increase the value and saleability of my home . . . and save me money, to boot!

Please send me full detailed information.

NAME	
COMPANY	
ADDRESS	TEL. NO.
CITY	ZONE STATE



BELOW A RANGE BURNER TOP where no other dishwasher can fit! Smart built-in idea. Takes no counter space, save a big 9" of cabinet space below dishwasher (Above toe-space). Usually grayity drain.



UNDER THE COUNTER. Thanks to unique design, this is the only standard-type installation that still leaves a big 12" of cabinet space for storage (Above toe-space). Usually gravity drain.



RECESSED IN WALL. Wherever the utility room adjoins the kitchen, L-T's modern thin-line design makes for easy installation at lowest cost ever. No wasted floor or cabinet space. Gravity drain.



ON THE WALL—Ideal for apartment houses as well as homes. Mount on wall next to the sink, below hanging cabinets. Convenient eye-level loading from front. Glamorous kitchen appearance. Gravity drain.

OR—INSTALL THE LING-TEMCO EASILY THESE EXCITING NEW WAYS:

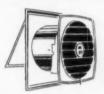
- Floating as a room divider or above a peninsula counter.
- * On the counter-next to
- * Below sink bowl.
- * Below or above a built-in oven.
- * Above clothes washer or dryer when in kitchen.
- Below counter in non-standard cabinets.

FILL OUT AND MAIL THIS POSTCARD TODAY

1 2

Check Page of Appliance Extras

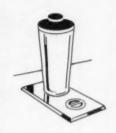
Not all the units shown here are termed "appliances". In the opinion of our editors they are, however, "appliance extras"...units which are fast becoming standard equipment in new houses. Since they often tip the scales in favor of a house's saleability, we suggest: check this page before planning your next model house.



EXHAUST FANS: Available for vertical or horizontal discharge of air from kitchen. Can be installed in ceiling; through wall; in cabinet. For vertical discharge of air from bathroom, units are available without extras; with light; with heat; with heat and light, and with infra-red sun lamp. Most kitchen units come in two sizes: with an 8" blade and with a 10" blade, and fit into openings 9" and 11", respectively. Bathroom fans available in 10"-14" diameters, approximately.

INCINERATORS: Average dimensions for incinerators—18" wide, 36" high, 24" deep. Both gas and electric models are available. Most new gas models are double-burning, resulting in "smokeless-odorless" operation. Both types require a Class A flue. Neary all types are sold with a one-year warranty. Check local codes for rules on installation.





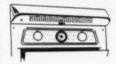
FOOD CENTERS: Installs so that power unit is below surface of counter. Connects to 115-volt AC outlet. Generally has six speeds. Is sold with or without its attachments, which include a mixer, blender, fruit juicer, knife sharpener, and meat grinder.

GARBAGE DISPOSERS: Are from 12" to 15" in length. Most operate with ½ HP, although ½ HP residential units are available. Need 115 volt 60 cycle outlet. Most disposers have a one- or more-year warranty. Average net weight is 25 lbs. Nearly all units are continuous feed types, and many have a safety mechanism to prevent jamming. Budget and deluxe models available.





BUILT-IN VACUUM SYSTEM: Connister and power units are generally installed in basement, garage, closet or utility room. Ducts run under floors, between studs. Three to five outlets are sufficient for the average home. Units vary from ³2 HP to 1¹/₂ HP. Operates on 115 Volt, 60 Cycle current.



RANGE AND OVEN HOODS: Available with and without exhaust fans, light. Also available from some manufacturers with built-in radio-intercom, and range controls. Units produced for use over range tops, free-standing ranges set against wall, and for range tops built-in to counter island. Oven hood generally made in 24", 27" and 32" lengths. Range hoods made in lengths from 24" to 48".



APPLIANCE CENTER: Generally installed on wall over kitchen counter. Fitted with circuit breakers, clock and automatic timer. Has pull-out plugs and sockets. Range from 30 to 45 amp service.

BARBECUE GRILLES: Are built for both indoor and outdoor use. Units in sizes calling for rough openings of from 22" to 36" long; from 17" to 22" wide and approximately 11" deep. Some are made with electric rotisserie, hood, timer and storage drawer, or any combination of these. Often installed with gos jet to start charcoal.





DOOR CHIMES: Available in a variety of styles and sizes from about 4" x 7" to 8" x 15". Can have two notes for front door, one note for back door, up to eight chards for front door, four chards for back door, and a number of combinations of these arrangements.

TOWEL DRYERS: Designed for use in kitchen, unit is cabinet with heater and fan built-in—9" to 15" widths. Also available: a bathroom towel rack with heating unit built-in to bars: 28" x 14".



Bl ro

BUILT-IN SCALES: Fits into bathroom wall recess. Housing for unit is roughly 14" x 23", with outside dimensions, 16" x 25". Lowers to floor on spring. INTERCOM SYSTEMS: Most popular units have radio (some are transistor type), inter-communication system for each room in the house and for front door. Other models have clock with alarm and timing devices, 115 volt 60 cycle outlets, and phonograph jacks. Average autside panel size is 9" x 11".



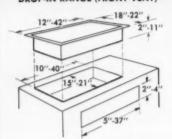
NOTE: For information on manufacturers of any product described here, check the yellow pages or write to Buyers Guide Editor, American Builder, 30 Church Street, New York 7, New York.



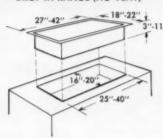
APPLIANCES

Planning for Kitchen Built-ins

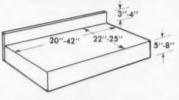
DROP-IN RANGE (FRONT VENT)



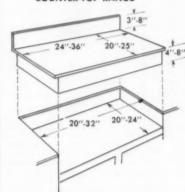
DROP-IN RANGE (NO VENT)



STACK-ON RANGE



COUNTER-TOP RANGE

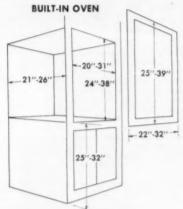


NOTE

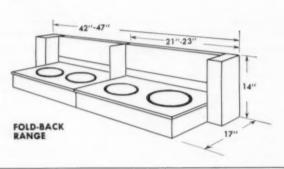
Both gas and electric models are available for each of the units shown here. Check with your supplier for exact dimensions. Oven measurements here only include single door integral broiler types. Double door (with separate broiler) and double oven types are also available.

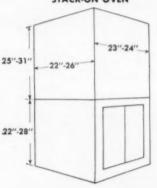
For a list of manufacturers,

For a list of manufacturers, check the yellow pages of this directory or write to the Buyers Guide Editor, American Builder, 30 Church St., New York 7, N. Y.



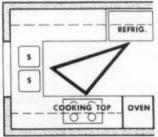
STACK-ON OVEN



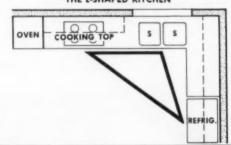


THREE BASIC KITCHEN PLANS

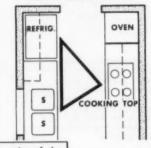
THE U-SHAPED KITCHEN



THE L-SHAPED KITCHEN



THE CORRIDOR KITCHEN



NOTE

Before planning your kitchen, divide the space into three general work centers: cooking and serving; food storage and preparation, and clean up. Ideally, these areas should be located at the points of a triangle.

The distance between each point of the triangle should be as small as possible, and at the same time allow enough space to move easily from point to point. There should also be adequate work surfaces and storage space at each center.

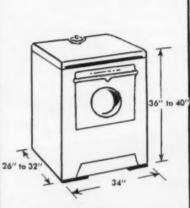
17

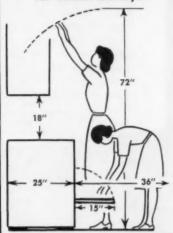
WASHER

Laundry Planning Standards

Minimum work space
for washer and dryer.

DRYER



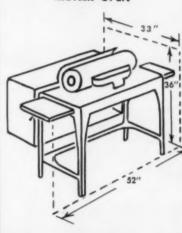




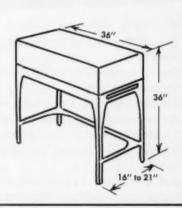
IRONER OPEN

Minimum work space for ironer.

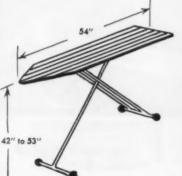
IRONER CLOSED







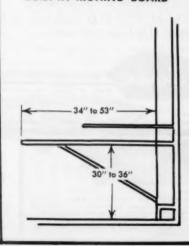
IRONING BOARD



Minimum work space for ironing board.



BUILT-IN IRONING BOARD



Broan Mixed-Flo Range Hood

handsomely fits your kitchen ... happily fits your budget

Broan's new design blade - MIXED-FLO - provides blower-like power to a fan-operated hood. To you this means swish styling for your kitchen, plus near silent operation, plus dependable, trouble-free performance . . . the wanted advantages you'd expect to find only in luxurypriced hoods. And with these advantages comes Broan's recognized quality craftsmanship — the very best in detailed metalworking. See your distributor, or write for full information.

> BROAN MIXED-FLO HOOD -Winner of the 'American Builder' Quality Builders' Product Award



- Vertical or horizontal discharge
- Graceful, contoured styling lets cabinet doors open fully
- Powerful whisper-quiet fan, built in underneath hood, saves cabinet space
- Pushbutton controls, easy to reach, on front of hood
- Concealed twin lights, for soft, glare-free illumination
- Lifetime aluminum filter, removes easily for cleaning
- Factory pre-assembled, prewired for fastest installation
- Just 5" high . . . 24", 30", 36", 42" wide
- Coppertone, antique coppertone, genuine stainless steel — matching splash plates. Decorator colors are available on special order.
- The MIXED-FLO hood, and all Broan hoods, meet H.V.I. requirements.



Manufacturing Company, Inc.

946 W. State St., Hartford, Wis., Near Milwaukee

Specialists in Quality Ventilating Equipment for Over 30 Years

In Canada

Manufactured by Superior Electric, Ltd., Pembroke, Ontario



BROAN
DUAL BLOWER HOOD Deluxe, powerpacked, whisper-quiet performer . . . vertical
or horizontal discharge. Dual centrifugal blowers with 4-pole neoprene-mounted motor . . .
seamless construction . . . factory pre-wired,



BROAN DUAL BLOWER ISLAND HOOD Has the same engineering features and tages as the regular Dual-Blower Hoo



DUCT-FREE HOOD COMBINATION with air-refreshing Charcoal Converter This slim-line converter mounts atop any dual blower or Mixed-Flo Hood for efficient duct free service.

YOUR GREATEST ASSET IS OUR QUALITY PERFORMANCE!

MARK 61 MODEL (ELECTRIC) Both gas and electric models fit flush ... align with cabinet fronts to give that true built-in look!

GIVE HER WHAT SHE WANTS WITH RCA WHIRLPOOL

...the only complete line of GAS and ELECTRIC NO-FROST refrigerator-freezers with true built-in look!

No matter what the home buyer's preference ... gas or electric ... there's an RCA WHIRLPOOL refrigerator-freezer to meet most every need, every desire. And, regardless of the kitchen's design, there's an RCA WHIRLPOOL model that's right in size, in type, in style and in price . . . for both you and your customer. It can have No-Frost refrigerator plus No-Frost freezer. It can have IceMagic® automatic ice maker, Jet-Cold* Shelf, Jet-Cold* Meat Chest, swing-out shelves . . . and many other new features that mean so much to modern housewives. Yes, the complete RCA WHIRLPOOL line enables you to buy gas and electric appliances from one source and get a package deal at a package price. Write Contract Division, Whirlpool Corporation, St. Joseph, Michigan for complete details.

*Tmk



ST. JOSEPH, MICHIGAN

Manufacturer of RCA WHIRLPOOL Automatic Washers • Wringer Washers • Dryers • Washer-Dryers • Refrigerators • Freezers Ice Cube Makers • Ranges • Air Conditioners • Dishwashers • Food Waste Disposers • Dehumidifiers • Vacuum Cleaners.

Use of trademarks @ ond RCA authorized by trademark evener Redio Corporation of America

MARK 1400 MODEL (GAS)



the name is magic!

MAGIC CHEF

...and national surveys prove it! Independent surveys show Magic Chef is the best known name in ranges. Magic Chef national advertising in McCALL's, BETTER HOMES & GARDENS, PARENTS' and LIVING continues to increase Magic Chef's outstanding consumer acceptance. Put Magic Chef's prestige name to work for you now. Write or wire Magic Chef, Inc., Cleveland. Tennessee.

Now...the priceless Magic Chef name is yours at a down-to-earth price!



BRAND NAMES DIRECTORY

(Continued from page 232)

ROYAL Chattanooga Royal Co ROYAL Crossett Lumber Co ROYAL EAGLE Eagle Rule ROYAL MARINE US Plywood Corp ROYAL 24 INCH SHINGLES White Creek Shingle Co ROYALCOTE CHERRY Masonite Corp ROYALCOTE WALNUT Masonite Corp ROYALCOTE WALNUT Masonite Corp ROYALCOTE WILDUT Masonite Corp ROYALCOTE WALNUT Masonite Corp ROYALTEN Polyplastex United RUBS-ROND Elliott Paint RUBBERCOAT Wilbur & Williams Co

Moulding Floor Co Inc RUBBERLINE Bird & Son, Inc. RUBBERLOCK Mitchel Rubber RUGASOL Sika Chemical Corp RUGBY Standard Brick & Tile RUGGED ROLLING DOOR W M Products Co

W M Products Co
RULANE Suburban
Propane Gas Corp
RUNWELL Frantz Mfg Co
RUS-KIL Mobile Paint Mfg
RUSCO Rusco Div of
RUST-DLEUM Rust-Oleum
RUSTBAAR Horn A C Cos
RUSTEX Elliott Paint
RUSTGO Stay-Tite Products
RUTLAND Rutland F&RE Clay
RUUD ALCOA ALLOY Ruud
S G CORK TILE Dodge Cork
S I \$ Allied Chemical Corp
S-N-S SHIELDS US Expansion
Bolt Co
S P SUPREME Southern Pine

Lumber Co
SABER-TOOTH Rawplug Co
SABINITE US Gypsum Co
SABRE Miller Co
SAF-SHORE Safway Steel Prods
SAF-T-CUT Bay State Abrasive
SAF-T-HOT Hedges M M Mfg
SAF-T-LOK Certain-Teed Prods
SAFE Safe Padlock & Hardware
SAFE-T-MATIC Safety Nail
Driver Corp.

Driver Corp
SAFE-T-APS Keystone Mfg Co
SAFETY GLO Rodale Mfg Co
SAFETY M I General Cable
SAFETY PULL Coffing Hoist
SAFETY-STEP Goodrich B F Co
Flooring Products
SAFETY-WALK Minnesota

Mining & Mfg SAFETYBREAKERS Cutler Hammer Inc SAFTI-VENT Bastian-Morley SAFTI-VENT Little H C

SAFWAY SHORES Safway
Steel Products Inc
ST REGIS American Sisalkraft
SAKAR Elliott Bay Mill Co
SALEM Johns-Manville
SALEM LINE Irmanton Prods
SAMARA US Plywood Corp
SAMCO Samuel Stamping
SAMCO Syrall Mfg Co
SAMPSON Richbilt Mfg Co
SAN-EQUIP Vega Industries
SAN MARINO Thomas
Industries Inc

Industries Inc
SANACOUSTIC Johns-Manville
SAND-OF-LEX Merit Products
SANDMASTER 8 Atlas Floor
SANI-CART American Conveyor
SANI FLOOR Hollaender Mig
SANIMASTER Ruud Mig Co
SANITONE American Asbestos
SANTA CLARA Permanente

Cement Co
SANTOBRITE Monsanto
Chemical Co
SARALOY Dow Chemical Co
SARGENT Sargent & Co
SASHCO Southern Sash Sales
SATEEN O'Brien Corp
SATIN-GLAZE Mosaic Tile Co
SATIN-GLAZE Mosaic Tile Co
SATIN GLIDE Williams Prods
SATIN GLO Sunbeam Plastics
SATIN SHEEN Chicago Bronze
SATIN SPAR Bestwall Gypsum

SATINA Penn-Akron Corp
SATINHIDE Pittsburgh Plate
SATINLAC US Plywood Corp
SATINTEX Seidlitz Paint
SATUNCONE Seidlitz Paint
SATUROCK Carter-Waters
SAV-A-DOR Ludwig Mfg Co
SAV-A-SCREN Farley &
Loetscher Mfg
SAVABRUSH Schalk Chemical
SAW MASTER Master

SAVABRUSH Schalk Chemical SAW MASTER Master Woodworker Mfg Co Inc SAW ZALL Milwaukee Elec Tool Corp SCATTER TWEED Wallace Mfg Co SCENERAMIC Oro Mfg Co SCHALKS Schalk Chemical Co SCOOPMOBILE Mixermobile SCOOT-CRETE Getman Bros

SCENERAMIC Oro Mfg Co SCHALKS Schalk Chemical Co SCOOPMOBILE Mixermobile SCOOT-CRETE Getman Bros SCORBORD Dow Chemical Co SCOTCH BRAND Minnesota Mining & Mfg Co SCOTCH-TRED Minnesota

SCOTCH-TRED Minnesota
Mining & Mig Co
SCOTCHRAP, Minnesota & Mig
SCOTSMAN Clipper Mig Co
SCOTSMAN Kennatrack Corp
SCOTTIE Kennatrack Corp
SCOUT Slaymaker Lock Co
SCREEN-BAK Behr-Manning
SCREEN-BLASS WATP Bros
SCREEN-O-MATIC Lockhart
SCREEN-O-MATIC Lockhart
SCREEN-O-MATIC Lockhart
SCREEN-TITE NAILS

SCREEN-O-MATIC Lockhart SCREENLOK Safetee Glass Co SCREW-TITE NAILS Independent Nail & Packing SCRO-GRILLS Hutchinson R H SCRU-LEADS Rawplug Co Inc SCRU-LEADS Rawplug Co Inc SCRUGUN Black & Decker Mfg SEA SWIRL US Plywood Corp SEADRIFT Masonite Corp SEAL-A-DOOR Seal-A-Door Co SEAL-A-MATIC Superior

Window Co SEAL-DRAFT Sun Screen Prods SEAL-DRI O'Brien Corp SEAL-EAZ Precision

SEALEAZ Precision
Weatherstrip Co
SEAL-FLEX Grand Rapids
Hardware Co
SEAL-FOIL Sealtite Insulation
SEAL-FOIL Sealtite Insulation
SEAL-OIL Sealtite Insulation
SEAL-O-CEDAR Aloha Lumber
SEAL-O-CEDAR Aloha Lumber
SEAL-TITE Starline Inc
SEAL-TITE Visador Co
SEAL-TREAT American
Asbestos Product Co
SEALAIR WINDOW Kawneer
SEALD LIGHT Coddington E D

SEALD LIGHT Coddington E D
SEALDON Certain-Teed Prods
SEALIT Sullivan Co
SEALMASTER Ida Products
SEALTIGHT Meadows W R
SEASON-MASTER McQuay Inc
SEASON-MASTER McQuay Inc
SECTIONFOLD DOORS
Wilson I G Corn

SECTIONFOLD DOORS
Wilson J G Corp
SECURIT American-Saint
Gobain Corp
SECURITY Cole Mfg Co
SECURITY ROOFING
National Mfg Corp
SED-N-COTE Seddon Co
SED-N-SEAL Seddon Co
SED-N-SEAT Seddon Co
SED-N-SEAT SEDDOOR CO
SED-N-SHADE SED COMBON SED-N-SHADE SED CON
Maguire Walter Co Inc
Maguire Walter Co Inc

Maguire Walter Co Inc SELBALITH Selby Battersby SELBATEX Selby Battersby SELCKAFT Selck Walter E SELECTAIR Johnson S T SELF-CONTAINED WEATHERMAKER Carrier Corp

SELF SEAL United Industries SELF-SENTERING Republic Steel Corp Truscon Div SENECA Keystone-Seneca Wire Cloth Co

(Continued on page 284)

How to make a husband buy a house...

(make his wife fall in love with the kitchen)



"No more dried out roasts, Dear" The Westinghouse Built-In Oven helps make every wife a perfect cook thanks to the exclusive Westinghouse "Roast Guard"—a feature that keeps meat juicy, hot and tender hours after cooking. For convenience sake, the Controls are at eye level . . . mounted at the side out of the heat zone. Oven door lifts off for easy cleaning. Can be built-in or stacked. Installs with just two screws. You can be sure . . . if it's Westinghouse.



"Who needs help with a kitchen like this" When your prospect sees a kitchen equipped with Westinghouse Built-In Appliances, she starts thinking in terms of her home. And no wonder! Only Westinghouse has a Center Drawer Refrigerator that keeps meat fresh 7 days without freezing; a washer and dryer in only 25° of floor space . . . plus many other unique appliances.

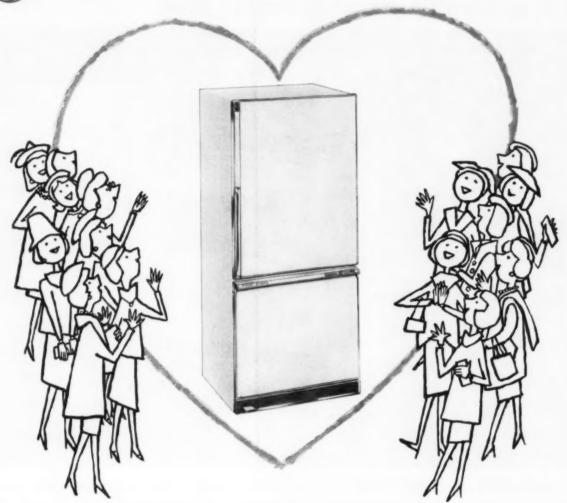


Westinghouse Electric Corporation Contract Sales Division Mansfield, Ohio		AB-4
Send me complete information on Appliances and Cabinets.	Westinghouse	Built-In
NAME		
COMPANY		
ADDRESS		
CITYZONE	STATE	

These appliances and Kitchen Cabinets, plus Heating & Air Conditioning, Wiring Devices, Micarta® Counter Tops, Apartment Elevators, are all available through one point of contact. See your Westinghouse residential sales manager or write Westinghouse Electric Corporation, Contract Sales Dept., Mansfield, Ohio,



Mark of Quality your customers recognize



More...and more women want a G-E Refrigerator

According to a recent survey, General Electric is the number one name in the home appliance field—and by a big margin. Could be the fact that General Electric makes such a broad line of refrigerators-many sizes, many prices, all with conveniencefeatures the ladies obviously like. Could be General Electric's dependability—6 million refrigerators in use ten years or longer. Could be you're making sales the hard way if you're not including a General Electric Refrigerator in your homes. Your General Electric Distributor will show you how easy it is. Call him now.

Progress Is Our Most Important Product









NOW <u>ALL</u> CONTROLS ARE EYE-HI

The Eye Appeal with Buy Appeal on General Electric Built-in Ranges—General Electric, the "New Idea Line" has another bright brainchild for '61: all controls for the Custom cooktop (including the automatic Sensi-Temp* unit) are on the hood! They line up with oven controls for the handsomest coordinated cooking center yet. And there are three brand new General Electric hoods in '61... two with surface unit controls. News too: Mix-or-Match color inserts . . . inspiration for decorators!

Built-in Beauty in Any Price Range! Choose your ideal General Electric combination from six oven models, seven cooktops, three hoods! There's a combination to suit every homebuilder's need. Mix-or-Match colors, coppertone, and stainless steel. In today's market, it's not enough simply to match your competitors' built-ins. Women want features and the quality name. With General Electric's new look and new ideas, your home is 1961 all the way.

General Electric Company, Range Dept., Appliance Park, Louisville I, Ky.

*Trudemark of General Electric

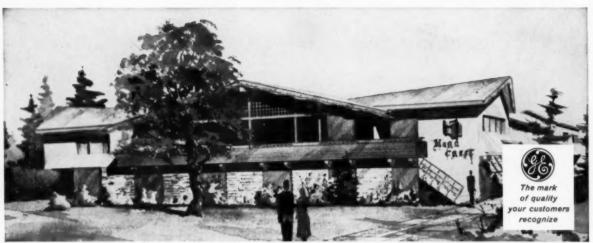
Progress Is Our Most Important Product

GENERAL 🍪 ELECTRIC

Above: Single Custom Oven JC15, Cooktop JP84 with remote controls on Hood JH94. Below: Famous Sensi-Temp Control on JH96 Hood. Custom Double Oven JC28 has exclusive "Dinner Dial" controls for both ovens. Cooktop JP86. At bottom: Low-priced combination with eye (and buy) appeal. Deluxe Oven JD12, Cooktop JP76, Hood JH92.







Lucky tenants in Max H. Resnick's Nord-Crest Apartments stay delightfully cool all through Southern California's long, hot summers. One-bedroom apartments have a 10,000 BTU General Electric Room Air Conditioner; larger apartments have two.

"GENERAL ELECTRIC ROOM AIR CONDITIONING HELPS RENT MY APARTMENTS...KEEPS THEM RENTED, TOO"



MAX H. RESNICK

"Prospects are impressed when they see the General Electric name," says President Max H. Resnick of Max H. Resnick Construction Company, Reseda, California. "Tenants like the performance and the neat, built-in look of their air conditioners.

I like General Electric's prompt, efficient servicethe best in this area."

Mr. Resnick bought 250 built-in units last year . . . recently ordered 350 more. "Installation is easy," he adds. "We install the cases during construction, the chassis later. Chassis are delivered-and I pay for them-when construction is finished." All of his luxury apartments will be completely air conditioned by General Electric Built-In Room Air Conditioners.

Choose from 18 different models ranging from 6,000 to 18,000 BTU's*. There's a General Electric Room Air Conditioner for almost every wiring and installation need. General Electric Company, Room Air Conditioner Department, Appliance Park, Louisville 1, Kentucky.

*Capacities tested and rated in compliance with NEMA standard CN1-1960, and stated in terms of British Thermal Units.

Progress Is Our Most Important Product





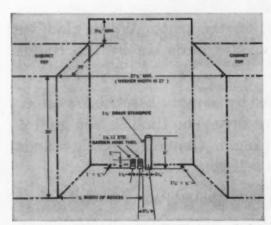




Air conditioning doesn't mar the appearance of these attractive apartments, inside or outside. Inside grilles also are neat and unobtrusive. Modern, rust-proof grilles of aluminum replace outside closure panels when the chassis are installed.



Install the new General Electric Filter-Flo® Washer flat against the wall...and save valuable space!



The General Electric 1961 Filter-Flo Washer may be installed flush-to-the-wall, as shown above, with special Installation Kit which is available from the General Electric Distributors. The kit contains drain hose, drain air-brake and complete, detailed directions.

To give your kitchens or utility rooms a custom-built effect—all hose and plumbing connections are recessed—in most models in the new 1961 line. Every Filter-Flo model is counter height and depth, 36" by 25". And that's what the ladies love today!

They'll love the new 12-lb. capacity, too—20% more than in previous models and now found in every model. A typical 12-lb. load is 3 double sheets, 4 pillowcases, 3 men's shirts, 4 T-shirts, 3 heavy bath towels, 5 washcloths, 12 handkerchiefs—tablecloth. Every piece gets piece-by-piece washing action.

As always, you can promise your prospects the quality and dependability only General Electric delivers. Ask your General Electric Distributor for complete information. Or write to the General Electric Home Laundry Dept., Room 207D, Bldg. 1, Appliance Park, Louisville 1, Kentucky.

Progress Is Our Most Important Product





SUCCESS # 7



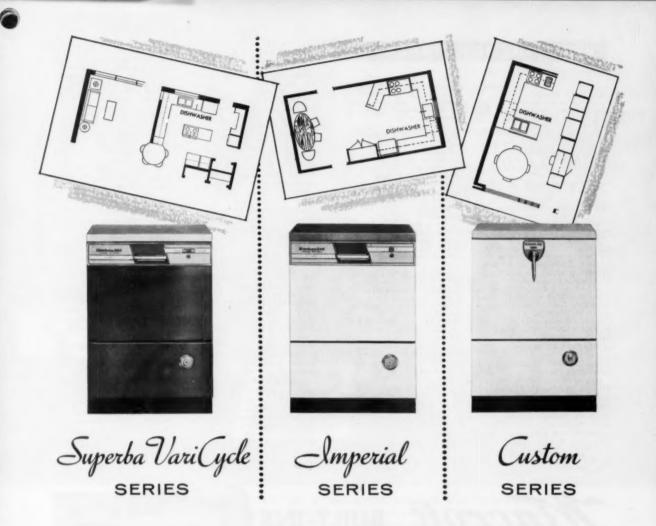
"We sold our Medallion Homes 4 to 1 over competitive houses in our area," says Eric Eriksson, Builder of Oak Park Estates, Dallas, Texas. "I give full credit to the safety, convenience and beauty of the General Electric features. People love home heating and cooling in *one* unit and they like getting kitchen appliances included in the price. We're glad we built these homes to the Gold Medallion standards set by the Dallas Power & Light Company."

Homebuilders: Medallion Homes equipped by General Electric are easier to build and *sell*. Here's why: 1. *One source* saves you time. 2. You get expert assistance in all your electrical planning. 3. General Electric stands for quality. 4. A new local plan helps you sell your homes!

Call your General Electric Major Appliance Distributor, today.

Progress Is Our Most Important Product

GENERAL @ ELECTRIC



Now...a quality

KitchenAid®

dishwasher for every home you build

More models and features than ever before, with a wider price range, too. Now KitchenAid can help *every* kitchen say "quality home" to prospects. Wide choice of finishes, including wood. Front-trim kits let you match counters, cabinets, floor or walls for a decorator look.

New performance; new styling; push buttons; new king-size capacity; convenient, load-as-you-like racks—all combine with the KitchenAid reputation for finest washing. Use these new KitchenAid dishwashers and their unmatched features to sell the lady, in the room that sells the house.

KitchenAid.

A model for every kitchen...every budget

BRAND NAMES DIRECTORY

(Continued from page 276)

SENTINEL Berkeley
Aluminum Products
SENTINEL Crane Co
SENTINEL Speakman C
SENTINEL Speakman C
SENTRY DOOR SEAL
Sentry Stop-A-Draft Co
SEQUIN Congoleum-Nairn Inc
SEQUOIA Redwood Sales Co
SERVANET Hyde Park Prods
SERVANET Hyde Park Prods
SERVICE-MASTER McCabe
Powers Body Co
SERVICE-WAY Vega Industries
SERVIS GYRO Servis
Equipment Co
SERVIS LONE STAR Servis
Equipment Co
SERVIS LONE STAR Servis
Equipment Co
SERVIS GeINCH SERVIS
EQUIPMENT CO
SERVIS GENERAL SERVIS GENERAL SERVIS
EQUIPMENT CO

SHADOWVENT SIDING Masonite Corp SHAKERTOWN Shakertown

Goulds Pumps Inc SHARP ALL Belsaw Machinery

SHEDWELL Frantz Mfg Co

SHELBY Columbia Geneva

SHIELDCOTE ENAMEL
Marietta Paint & Color Co.

SHEF-TY Sheffield Div

SHEETROCK US Gypsum Co

SHALLOW-FLOW

SHIELDWHITE PAINT
Marietta Paint & Color Co
SHINGLE N SHAKE Lowe Bros
SHOJI Clopay Corp
SHOLUME Shower Door Co
SHOPMASTER Shopmaster Div
SHOPMATE Partable Electric
Tools Inc
SHORGAS Suburban Propane
SHORTY Black & Decker Mfg
SHOVELAIRE C & H
Air Conditioning Co Inc
SHOWEASE Congoleum-Nairn
SHOWER MAGIC Daryl Prods
SHOWERAMA Daryl Products
SHOWERAMA Daryl Products
SHOWERAMA Daryl Products

Shower Door Co of America
SHOWERITE Efron Theodore
SHUR-TRED Johnson's Wax
SHURE-SET Ramset
Fastening System
SHUREBOND UNIT SYSTEM
Goldsmith Metal Lath Co
SHUREDRY Fulton Cotton
SI-CLONE Simonds Saw
SI-FLO Speakman Co
SIERRA Fiat Metal Mfg Co
SIGMA Wakefield Co
SIGUNIT Sika Chemical Corp
SIKA-GARD Sika Chemical
SIKA-GARD Sika Chemical
SIKA-SEAL Sika Chemical
SIKA-SEAL Sika Chemical
SIKA-SEAL Sika Chemical
SIKA-CTT US Gypsum Co
SILACOAT American
Asbestos Product Co
SILATEX Tamms Industries
SILENT-FLOW Goulds Pumps
SILENT-FLOW Goulds Pumps
SILENT-FLOW GOULDS

Weatherproof Products Corp SILENT KNIGHT White-Rodgers Co SILENT NITE Wright Prods SILENTILE Curtis Companies

SILENTITE Curtis Companies SILENTVANE Westinghouse Electric Corp
SILI-TITE Sterling Quality
SILICONE SEAL Penn Crete
SILICONE X-5 Elliott Paint & Varnish Co SILVARA Shakertown Corp SILVAWOOL Weverhaeuser Co Silvatek Div SILVER KING Arrow Expansion Bolt Co SILVER STEEL Atkins Saw Div SILVERCEL Silvercote Products SILVERSTAR Alumatic Corp SIMBA Tubular Structures SIMPL-L-ON Conver Steel SIMPLEX Mansfield Sanitary SIMPLEX Revere Copper SIMPLEX FOLDING STAIRWAY Precision Parts SINK-LOK B & T Metals Co SINKETTE Elkay Mfg SIOUX Albertson & Co Inc SISAL-GLAZE American SISALATION American Sisalkraft Corp SISALITE American Sisalkraft SISALKRAFT American Sisalkraft Corp #633 TILE ADHESIVE Tamms Industries Co 61 Pratt & Lambert Inc SIZE-O-MATIC Leigh Building SKID-LOADER Drott Mfg SKID-SHOVEL Drott Mfg Corp SKILSAW Skil Corp SKIPPER Fiat Metal Mfg Co SKOOPER Koehring Co SKOTCH Superior Fastener SKREW-SET Ramset Fastening SKUFPRUF Richkraft Co

SKY-BLAST Robbins & Myers

SKY WITCH Witch Marketing

SKY-MASTER McCabe Powers Body Co

SKYDOME Wasco Products Inc SKYDOME Wasco Products Inc SKYLIKE Silvray Lighting Inc SKYMASTER Acme Engineering SLATEKOTE Johns-Manville SLENDER Dunkirk Radiator SLIDE-O-MATIC Storm King SLIDE-O-MATIC Storm King SLIDE-O-RAMIC Wisco Inc SLIDERITE Grant Pulley SLIM-LINE Empire Level Mfg SLIMFOLD American Steel SLIP-JOINT Logan Clay Prods SLOPE-BEAM Inland Steel SLUMBER GLO Rodale Mfg SLUMPSTONE General Concrete Products Inc SMALMESH Inland Steel SMITH & EGGE Turner & Seymour Mfg Co SMITHMOBILE Smith T L Co SMOOTH-AIRE Ideal Brass SMOOTHFORM US Plywood **SMOOTHGRAIN** Johns-Manville Corp SMOOTHLITE Insulite Div SNAP York Wall Paper Co SNAP-JOINT Victaulic Co SNAP-ON Ideal Brass Works SNAPICOIL Wiremold Co SNAPIT Cable Electric Prods SNAPLOK Reeves Steel & Mfg SNOW DRIFT US Gypsum Co SNOW WHITE Tamms Indus SNUG Weil-McLain Co SNUG FIT Paine Co SNUG-TITE Engineered Products Co SO HARD SCREWS Screw & Bolt Corp SOFTITE Wheeling Steel Corp SOLAR SHADES Superior Window Co SOLARDOME Klise Mfg SOLARGRAY Pittsburgh Plate SOLEX Pittsburgh Plate Glass SOLIDEX Pratt & Lambert Inc (Continued on page 290)

Wincroft BUILT-INS

Quality Appeal: Price Appeal

Your choice of decorator colors and finishes . . . beautiful satin chrome plated steel, and in porcelain enamel—coppertone, silvertone, pink, yellow, white and turquoise.

A. G. A. Tested and Approved

SOME OF WINCROFT'S OUTSTANDING FEATURES

Electric Clock with 4-hour Timer • Robertshaw Automatic Oven Control • Perma-View Non Fog Glass Oven Door • Two-piece Broiler Pan and Grille • Porcelain Enameled Outer Jacket • Lifetime Cast Iron Burners • Porcelain Enameled Burner Box • Many other features.

Write for full information

DISTRIBUTORSHIPS AVAILABLE IN SOME CHOICE TERRITORIES

Quality with Economy Since 1856



OVEN UNIT W-610A SHOWN

THE STOVE WORKS, INC. Middletown, Pennsylvania



Convenience-quality-color! Huge Visualite oven, eye-level controls, every major gas or electric cooking feature that women want. Six warmly beautiful colors to blend with your kitchen decor - 14 different surface arrangements. Ovens, surface units interchangeable. All fit standard cut-outs,

Offer TAPPAN gas or electric built-in ranges ... plus the complete Tappan package



Dishwashers



Disposers



Refrigerators



MAIL POSTCARD TODAY!



Postage Stamp Necessary Mailed in the United States

BUSINESS REPLY MAIL

First Class Permit No. 3 (C.F.R. 34.9), Mansfield, Ohio

THE TAPPAN COMPANY Dept. AB 4-1 Mansfield, Ohio

Attention: Mr. Ken Berkey



Sinks



Range Hoods



TAPPAN 'FABULOUS 400'-40 inches wide. Stand on cabinethang on wall. Always looks built-in! Self-vented. No special cut-outs needed. Hideaway surface units. Dozens more features.



TAPPAN 'DEBUTANTE 400'-30 inches wide. Reach-in height oven, broiler. Easy to clean. Self-vented. No cut-outs needed. Eye-level controls. Back units hide away when not in use.

HOW TO SELL Offer the TAPPAN '400' ... most exciting range made today!



11:00 - wiring, vent roughed in



11:05-base cabinet in place

State



11:20-set and wires connected



11:30-soup's on!

Please supply me with complete specification, installation and model information on Tappan:

Built-in gas ranges

Built-in electric ranges

Electronic ranges 🗌 Built-in refrigerators 🖸 Built-in dishwashers 🗌

The 'Fabulous 400' and the 'Debutante 400'

Address

Name

You'll save up to \$166 on installation costs!

Single conduit connection...... \$25.00 No separate vent or hood...... \$50.00 No countertop covering..... \$20.00 No oven cabinet needed...... \$45.00 Labor saving...... \$26.00 *Savings approximate

GAS, ELECTRIC, ELECTRONIC . . .

Mansfield, Ohio . Montreal, Quebec

PAINTS, FINISHES, WATERPROOFING

Paints and Finishes

Suggested Exterior Color Schemes

If the roof the house	of is			G	RA	Y					(GRE	EN					R	RED				B	RO	WN	1			BL	JE	
You can paint the b		White	Gray	Cream-yellow	Pale green	Dark green	Putty	Doll red	White	Gray	Cream-yellow	Pale green	Dark green	Beige	Brown	Dull red	White	Light gray	Cream-yellow	Pale green	Dull red	White	Buff	Pink-beige	Cream-yellow	Pale green	Brown	White	Gray	Cream-yellow	Blue
	Pink	X	X			X		X	X				х		Х																
	Bright Red	X	X	X					X		X						X	X	X	X											
	Red-orange	X	X				X		X	X		X	X									X					X	X	X	X	X
	Tile red	X	X	X	X		X		X	-	X	X	-	X			X	X	X	X		X	X	X	X			X		X	
	Cream	X				X		X	X	X			X		X	X					X						X		X		X
and	Bright yellow	X	X	X	X	X			X	X		X	X		X							X					X	X			X
the trim	Light green	X	X			X		X	X	X	X		X		X	X					X	X									
or	Dark green	X	X	X	X		X		X		X	X		X			X	X				X	X	X	X	X					
shutters	Grey-green	X	X	X	X		X		X		X			X		X					X	X	X	X	X	X					
and	Blue-green	X	X						X					X			X		X		X	X	X		X						
doors	Light blue	X	X						X																			X	X		X
	Dark blue	X	X				X		X					X					X			X						X	X	X	
	Blue-gray	X	X				X	X	X					X			X		X			X								X	
	Violet	X	X						X													X									
	Brown	1				-	X		X		X											X	X	X	X	X					
	White	1	X	X	X	X		X		X	X	X	X		X	X		X		X	X			X			X		X		X

What to use ... and where

Black det indicates that a primer or sealer may be necessary before the finishing coal (unless surface has been previously finished).	Exterior Clear Finish Rubber Base Paint Cement Base Paint Transparent Sealer House Paint	Asphalt Emulsion Roof Cement Roof Coating Wood Stain Aluminum Paint	Porch-and-Deck Paint Spar Varnish Awning Paint Trim-and-Trellis Paint Metal Roof Paint	Metal Primer Primer or Undercoater
Clopboard Siding	X.	x		Х
Brick	X.X X X	X		X
Cement & Cinder Block	X, X X X	X		X
Asbestos Cement	X. X			X
Stucco	X.XXX	X		X
Natural Wood Siding & Trim	X	X	X	
Metal Siding	X.	X.	X.	X
Wood Frame Windows	Χ.	X	X.	X
Steel Windows	X.	Χ,	X.	X
Aluminum Windows	X .	X	х.	X
Shutters & Other Trim	Х.		X.	X
Canvas Awnings	1		X	
Wood Shingle Roof		X		
Metal Roof			X,	X
Coal Tar Felt Roof		XXX		
Wood Porch Floor	į.		X	
Cement Porch Floor	X		X	
Copper Surfaces			X	
Galvanized Surfaces	X.	X.	X. X	X
Iron Surfaces	X.	X.	X.	X

Tips on Color

If you have:	And you want	t: Do this:
Blue	Dark Blue	Add Black
Blue	Light Blue	Add White
Green	Deep Green	Add Blue or Black
Green	Light Green	Add Yellow or White
Green	Olive	Add Blue and Red
Orange	Brown	Add Blue
Red	Dark Red	Add Black
Red	Light Red (not Pink)	Add Orange
Red	Brown	Add Green

Primary and Secondary Mixtures

Red plus Yellow makes Orange Yellow plus Blue makes Green Blue plus Red makes Purple Orange plus Green makes Citron Green plus Purple makes Olive Purple plus Orange makes Russet (Try a small sample first for desired color)

Natural Finishes

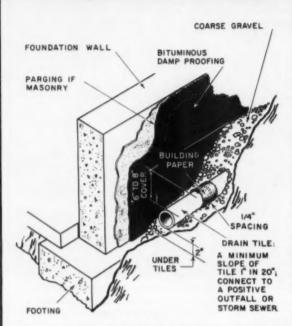
The following are natural-finish systems for outdoor use on redwood. WATER REPELLENTS: Easy to apply. Easy and inexpensive to maintain. No special preparation required prior to refinishing. Field experience indicates that paintable waterpensive to maintain. No special preparation required prior to retinishing, retal experience maintains water-repellent preservatives provide the most satisfactory natural treatment for exterior redwood. Products meeting requirements of Federal Specifications TT-W-572 should prove satisfactory. BLEACHES and FLAT-PIGMENTED STAINS: Easy to apply. Easy and inexpensive to maintain. No special preparation required prior to refinishing. While these finishes give good service when applied to dressed surfaces, they may be expected to last over twice as long when applied to sawn surfaces. GLOSSY STAIN-AND-CLEAR COMBINATIONS and GLOSSY CLEARS: These are film-forming finishes and must be applied GLOSSY STAIN-AND-CLEAR COMBINATIONS and GLOSSY CLEARS: These are film-forming finishes and must be applied carefully to a properly prepared surface in order to obtain satisfactory results. If these finishes are used in protected locations, they may be expected to give good service. They should be used on exposed areas only with the realization that they may be expected to require maintenance in less than two years and that, after one or two maintenance coats, special surface preparation, involving complete removal of the old finish, probably will be required. For complete information and recommended products, write to the California Redwood Assn., 576 Sacramento St., San Francisco 11, Calif.

For additional information on natural finishes, see FHA Minimum Property Standards, Section 910, Painting and Decorating, or write The National Paint, Varnish and Lacquer Assn., 1500 Rhode Island Ave., N. W., Washington 5, D. C.

Tables Courtesy National Paint, Varnish and Lacquer Assn.

PAINTS, FINISHES, WATERPROOFING

Waterproofing and Dampproofing



Placement of the drain tile has FHA approval for minimum acceptable protection. For maximum protection, tile should be laid on the same plane as footing. Joint between foundation and footing should be flashed.

FHA REQUIREMENTS

Foundations or footing drains connected to a positive outfall shall be provided around foundations enclosing basements or habitable spaces below grade. Install at ar below area to be protected.

Clay or concrete drain tile shall comply with ASTM C-4 or ASTM C-412, or tile may be asbestos cement or bituminized-fiber pipe.

Drain tile shall be installed having a minimum slope to outfall of ½ per cent (approximately 1 inch in 20 feet). Protect top of joints in drain tile with 6 to 8 inches of coarse gravel or crushed rock or blast-furnace slog. Provide approximately 2 inches of aggregate material under tile.

Foundation drains may be omitted, when acceptable to FHA field affice, in locations where well-drained soil exists or where ground or surface water will not present a problem.

Exterior foundation walls of masonry or of double-formed concrete enclosing basement or habitable space below grade shall be dampproofed.

masonry foundation walls

 a. Apply at least 1 coat of Portland cement parging to wall from footing to finish grade. Minimum thickness, % inch.

b. Apply at least 1 coat of bituminous dampproofing material over parging. Apply at rate recommended by the manufacturer. Bituminous materials shall comply with 712-1 (FHA Minimum Property Standards).

concrete foundation walls

Apply at least 1 coat of bituminous dampproofing material to wall from footing to finish grade. Apply at rate recommended by manufacturer. Bituminous materials shall comply with 712-1 (FHA Minimum Property Standards).

Foundation dampproofing may be omitted, when acceptable to FHA field office, in locations where well-drained soil exists or where ground surface water will not present a problem.

Masonry water-repellent Specifications

material

Shall be a clear, colorless solution in mineral thinner and shall have a flash point of not less than 80° F. It shall have a solids content of not less than 5%, of which 100% shall be silicone resin.

The water-repellent material shall not have an obnoxious odor either in the container or during application. It shall be of such consistency that it may be applied readily at sub-freezing temperatures, and shall leave no visible film after application.

scope

It shall be used on all exterior above-grade masonry surfaces such as concrete, brick, stucco, concrete block, porous tile, stone and mortar joints in all types of masonry structures.

surface preparation

Clean all surfaces to be treated until free of dirt, excess mortar, loose particles and all other foreign material. Remove salt deposits from previous efflorescence, by washing with dilute acid solution, such as muriatic, followed by thorough flushing with water. Grease or oil stains may be removed with mineral solvents, caustic cleaning compounds or detergent solution, followed by rinsing with clear water. Repoint all joints where mortar is loose or missing. Repair all holes and cracks larger than hairline. If surfaces to be treated have been wetted by rain or copious amounts of water in the cleaning process, at least two days drying, under favorable conditions, should be allowed before application of the water repellent treatment. New masonry requires 2 to 3 weeks drying under normal conditions before application of a water repellent.

application

Preferred application is by low spray, not exceeding 10 psi at the gun and the lowest possible fluid pressure that will maintain a continuous flow of material. Keep nozzle of gun approximately 6 inches from the wall and make final pressure adjustment to completely eliminate or minimize splashing and formation of a mist or fog. The water repellent should be flooded on to the surface to the point of maximum absorption, as indicated by a run-down of six to twelve inches or more, depending upon the denseness of the masonry. Application should be made at the rate of 75-100 square feet per gallon on masonry of normal porosity. On dense masonry which will not accept and absorb the water repellent at that rate, the coverage may be extended to a maximum of 175-200 square feet per gallon. In such situations, two coats may be desired. At least two to four hours under good drying conditions should be allowed between coats.

Application by brushing is satisfactory if care is taken to apply a liberal enough coat to meet recommended coverage rate. Roller application at the same rate is also satisfactory if the surface is smooth enough for all areas to be reached. Most often, however, in masonry construction the mortar joints are inset to such an extent that low pressure spray or brush application is the only practical satisfactory method of application. The same would apply to coarse texture stucco.

Overspray or splashing on other exterior oil or water based paints is harmless and may be left without damage. The water repellent may be removed from glass or hardware at any convenient time with a cloth dampened with paint thinner.

safety precautions

A dilute water-repellent solution prepared as indicated under "Material" constitutes no more of a hazard than any ordinary architectural paint when normal precautions are taken and "good housekeeping" is practiced. Because of the high-solvent concentration, prolonged breathing of vapors should be avoided and the usual precautions against fire should be observed. When spraying the water repellent, even at the recommended low pressures, the operator should be protected with goggles and a respirator that will prevent the passage of solvent mist or fog, which, when inhaled, is very toxic.

Courtesy: General Electric Co.

PAINTS, FINISHES, WATERPROOFING

Vapor Barriers

GENERAL DATA

Resistance to the flow of heat through insulation installed in a wall, roof or slab is so much greater than that of other elements in the construction of a building that condensation may result in this insulation. Most insulations block heat but pass vapor. A simple prevention to condensation is to stop the flow of water vapor with some surface material that is impervious to moisture. Such a surface is called a vapor barrier. Vapor barriers are made

from a variety of materials. They should be installed on the warm or interior side of walls and roofs; and they should be next to or part of the insulation. Since vapor behaves as a gas, the barrier should be airtight or as nearly so as possible. Permeability of vapor barriers is measured in Perms. A Perm equals the grains per sq. ft. per hr. per in. of mercury difference in vapor pressure at standard test conditions.

VENTILATION AND BARRIER REQUIREMENTS TO PREVENT CONDENSATION* VAPOR BARRIERS CONDENSATION ZONES TYPE OF TOTAL FREE AREA Zone i Zone 2 Zone 3 FLAT ROOF Slope less than (ctr.) 12 1/300 Uniformly distrib-uted at eaves. Free circulation through all spaces required Required on worm side in top story ceiling. ZONE CABLE ROOF Slope over 1/300 At least 2 louvers on opposite sides near ridge. Required on warm side in top story ceil. Considered 12 3 unnecessary. ZONE 2 1/300 1/600 uniformly distributed at eaves & 1/600 at ridge with all spaces intercon-Recom-mended on warm side in top HIP Considered unnecessary. ZONE ROOF story ceiling. nected. Recommended on warm side in top full story ceiling, dwarf walls slap-ing part of roof & attic story ceiling. Consid-ered un-necessary if insula-GABLE Zone 1. roughly includes design temps. of -20°F. & lower Zone 2. from 0°F, to -10°. HIP ROOF tion is omitted. (ctr.) Zone 3, oreas warmer than 0°F.

*The figure given indicates that the clear opening of vents totaled should be 1/300 of the bldg, area at eave line. Only 10% of given figure necessary if bsmt, has slab, or crawl space earth covered with 55# felt lapped 2".

MATERIAL PERMEABILITY DATA

Forest Products Laboratory lists, in Perms, the water vapor permeability of various building materials as follows:

	WV Trans	mission		WV Transi	mission
MATERIAL	Low	High	MATERIAL	low	High
Sheathing and Roofing Products			30-85-30 untreated, reinforced	.296	.654
5-lb. sheathing paper	2.555	3.847	30-120-30 untreated, reinforced	.346	.389
5-lb. tar felt	1.560	4.055	60-30-60 1 covering sheet		
0-lb. tar felt	33.304	*******	saturated with asphalt	.935	1.037
5-lb. asphalt felt	.560	2.007	Duplex paper-coated both sides		
0-lb. asphalt felt	.498	3.022	with reflector's material	.226	9444444
sphalt-coated paper	.146	.287	Duplex paper-coated both sides		
5-lb. roll roofing	.030	.081	with reflector's material reinforced	.304	.347
Polyethylene Film			Duplex paper-covered with		
			aluminum foil one side	.001	.107
.002 in. thick		.270	Single Sheet Kraft, Double-Infused		
.004 in. thick	.097	.108	Asphalt-saturated Kraft	7.447 to	
Insulation Back-up Paper			Aspiralisationales Kraii	7.987	11.656
araffin coating, 1 side	.133	.237	Asphalt-saturated Kraft.	7.707	11.000
single infused	.433	.583	30% asphalt	30.764	*********
Single infused, ribbed	.162	.232		00000	********
Asphalt saturated, one side glossy	.327	.377	 Miscellaneous 		
			%-in. fiberboard sheathing		
Duplex or Laminated Products,			with light asphalt coat	6.320	8.460
Asphalt Laminae			1/2-in. gypsum sheathing	18.200	21.950
30-30-30 untreated	.447	1.081	%-in. gypsum lath with		
30-60-30 untreated	.527	******	aluminum fail backing	.061	.277
30-100-30 untreated	.280	*******	Aluminum foil mounted on		
30-30-30 untreated, creped	.583	1.812	paper backing	.003	.005
30-30-30 untreated, reinforced	.305	*******	Premoulded membrane	.0066	*****

BRAND NAMES DIRECTORY

(Continued from page 284)

SOLIDOR Farley & Loetscher SOLIDWOOD Hardwood Corp SOLITE Oro Mig Co SOLRAY Weil-McLain Co SONTE Smooth-On Mig Co SONOCOR Owens-Corning SONOCOR Owens-Corning SONOFACED Owens-Corning SONOMEND Sonneborn Chemical & Refigior

SONOCOR Owens-Corning SONOFACED Owens-Corning SONOMEND Sonneborn Chemical & Refining SONOTUBE Sonoco Prods Co SOUND-GUARD Progress Mfg SOUNDBILT Puget Sound Plywood Inc

SOUTH-PLY-WOOD Southwood SOUTHERNER Norman

Products Co
SOVEREIGN Miller Co
SOVEREIGN Miller Co
SPACEMASTER Lewis-Shepard
SPACEMASTER New Castle
SPACESAVER Payne Co
SPAKO-PATCH Tamms
Industries Co
SPAN Howard Mfg Co
SPAN Howard Mfg Co
SPANCETE West Allis

SPAN ROWARD MIG CO SPANCRETE West Allis Concrete Products Co SPANDRELITE Pittsburgh Plate Glass Co SPARKLEWOOD

SPARKLEWOOD
Congoleum-Nairn
SPARTAN Lithibar Co
SPARTAN Mansfield Sanitary
SPARTAN Parker S Hardware
SPECIALMESH Inland Steel
SPECIFICATION Allied
Chemical Corp
SPECIFICATION GRADE

DEVICES Leviton Mfg Co SPECTRIM Pittsburgh Plate SPECTRO-MATIC TINTING SYSTEM Rockcote Paint Co SPECTRO-MATIC WOOD TONES Rockcote Paint Co SPEE-D Leigh Building Prods SPEE-DEE Dalton Mfg Co SPEED Louisville Cement Co SPEED Speedway Mfg Div SPEED-BARROW American

Conveyor Co SPEED CLIPS Tinnerman

Products Inc SPEED-GRITS Behr-Manning SPEED LOADER Macklanburg-Duncan Co SPEED NUTS Tinnerman

Products Inc SPEED QUEEN Speed Queen SPEED-RAIL Hollaender Mfg SPEEDAIRE Dayton Electric SPEEDECK Mobile Paint Mfg SPEEDMASTER Copymation SPEEDRIL Lockwood

SPEEDRIL Lockwood Hardware Mfg Co SPEEDTILE Rockford Brick SPENCER Spencer Heater SPIB 77 Southern Pine Lumber SPIN-A-BRUSH Portable

SPIB 77 Southern Pine Lumber SPIN-A-BRUSH Portable Electric Tools Inc SPINDRIER Easy Laundry SPINDRIER Easy Laundry SPINTEX Johns-Manville Corp SPIRA-LIFT Caldwell Mfg SPIRAFLEX Caldwell Mfg Co SPIRAL Maze W H Co SPIRALATOR AUTOMATIC WASHER Easy Laundry

WASHER Easy Laundry SPIREX Caldwell Mfg Co SPIROLOC Universal Form SPLASH VALLEY Tennison

SPLURGE United Gilsonite

SPOT STAPLERS Spotnails Inc SPOT STAPLES Spotnails Inc SPOTAIR Crane Co SPOTAIRE Drayson-Hanson SPOTNAILERS Spotnails Inc SPOTNAILS Spotnails Inc SPOTPINNERS Spotnails Inc SPOTPINS Spotnails Inc SPOTPINS Spotnails Inc SPRAYLER Kochring Co SPRAYLT Thomas Industries SPRED GLIDE-ON Glidden Co SPRED HOUSE PAINT

Glidden Co SPRED PATCH Glidden Co SPRED SATIN Glidden Co SPRING-EZE Ajax Hardware SPRING-FLEX Unique Window SPRING-LOCK Tilley John S SPRING-TITE Weatherproof

Products Corp
SPRING WING Paine Co
SPRING-WINGS Rawplug Co
SPRING-WINGS National Metal
SPRINGFLEX Dennis W J
SPYROL Hillwood Mfg Co
SOLIAREHED NAILS

SPYROL Hillwood Mfg Co
SQUAREHED NAILS
Independent Nail & Packing
STA-DRI American Sta-Dri Co
STA-LOCK Celotex Corp
STA-TITE Sta-Tite Inc
STABLOK Federal Pacific
STACKDOOR American
Accordion-Fold Doors Inc
STAINTOX Abestos Mfg Co
STAILPACK Carthage Marble
STANDARD Lanebro Mfg Co
STANDARD Shelby Metal
STANDARD SOORK TILE
Dodge Cork Co Inc
STANDARD DUOLOX
Masonite Corp
STANDARD-FLUSH DOOR

Hardware Products Corp STANDARD I F B COMBUSTION CHAMBER Green A P Fire Brick Co STANDARD PRESDWOOD
Masonite Corp
STANLEY-HANDYMAN
Stanley Tools
STANLOCK Standard Register
STANSCREW Stanscrew
Fasteners Div
STANTHONY Stanthony Corp
STAR BRAND Turner &
Seymour Mfg Co
STAR DRYVIN HARDWARE
Star Expansion Industries
STAR GRIPZIN Star Expansion
Industries Corp
STAR HAMBFLUTE Star

Expansion Industries Corp STAR LIGHT Thomas Industries Inc STAR PINGRIP Star Expansion Industries Corp

Industries Corp
STAR SSS SELFDRIL SHIELDS
STAR SSS SELFDRIL SHIELDS
STAR SSS SELFDRIL SHIELDS
STAR STRIKR STAR Expansion
STAR STUDS STAR Expansion
STARSTIPS STAR Expansion
STARBRITE Hanover Wire
STARLITE Elkay Mfg Co
STAYBLICE Elkay Mfg Co
STAYBLICE Elkay Mfg Co
STAYBLICE Elkay Mfg Co
STAYBLICE Elkay Mfg Co
STAYSTRATE US Plywood
STEELBINDER Gerrarda A J
STEELITE Clopay Corp
STEELMASTER Stanley Tools
STEELTEX Pittsburgh Steel
STEELTEX GVELOR
STERLING Waldorf Heater Co
STEWART-AIRE Stewart
Industries Inc
STILE MATE Grand Rapids

Hardware Co STILEMAKER Russell & Erwin STILEMANOR Russell & Erwin STILLE-YOUNG Chicago Bronze & Color Works STOKER-VEYOR American

Conveyor Co STONE-DRI Sapolin Paints Inc STONE-FIL Thomas Moulding STONE-SULITE Certain-Teed Products Corn

STONEWALL BOARD
Ruberoid Co
STOP GAP Sapolin Paints Inc
STOP IT Tamms Industries Co
STORAWAY ENCLOSURES

Birdair Structures Inc STORM KING Allied Chemical STORMGUARD Maze W H Co STOW-IT Gordon Mfg Co STOWAWAY Lennox Industries Inc

Industries Inc
STRADDLE TRUCK Hyster Co
STRAITS Clopay Corp
STRAN-MASTER Stran-Steel
Corp Div Natd Steel Corp
STRAPBINDER Gerrarda A J
STREAMLINE Mueller Brass
STREAMLINER Auer Register
STREAMLINER Ferguson H J

STREAMLINER Ferguson H J STREAMLINER Holt Mfg Co STRETCH LATEX PAINT Tamms Industries Co

STRETCHWOOD Higgins Industries Inc STRONG-WALL Celotex Corp STRONGBARN Granite City STRONGBORD

Johns-Manville Corp STRONGHOLD NAILS Independent Nail & Packing STRUCTOGLAS A Structoglas STRUCTOGLAS S E

Structoglas Inc STRUCTOLITE US Gypsum Co STRUTWALL Andersen Corp STRY PANEL Cermak Tile Co STRYPEEZE Savogran Co STUBBY Holly-General Co STUD DRIVER Remington

Arms Co Inc STUD JACKS Superior Scaffold (Continued on page 304)



- Economical 1/2 the cost of paints.
- · Require no priming coat; are easier to apply and maintain.
- Need no thinning; surfaces need no scraping or sanding.
- Trouble-free no cracking, blistering, or peeling.
- · Penetrate deeply, dyeing and preserving the wood fibers.
- . Enhance the beauty of the wood grain; leave no brush marks.
- · Offer unique color effects in a wide color range.
- . Grow old gracefully, may be stained or painted over later.



For best results, the best in Stains . . . Cabot's Oll-base or Creosote Stains.

SAMUEL CABOT INC.

424 South Terminal Trust Bldg., Boston 10, Mass.

Please send color cards on Cabot's Stains.

Power Tool Wire Data

Recommended Extension Cord Sizes for Use with Portable Electric Tools

Name-									COP	RD LENG	TH IN	FEET								
Amperes -	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
1	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16 .	16	16	14
2	16	16	16	16	16	16	16	16	16	14	14	14	14	14	14	12	12	12	12	12
3	16	16	16	16	16	16	14	14	14	14	12	12	12	12	12	12	10	10	10	10
4	16	16	16	16	14	14	14	12	12	12	12	12	12	10	10	10	10	10	10	10
5	14	14	14	14	14	14	12	12	12	12	10	10	10	10	10	8	8	8	8	8
6	14	14	14	14	14	12	12	12	10	10	10	10	10	8	8	8	8	8	8	8
7	14	14	14	14	12	12	12	10	10	10	10	8	8	8	8	8	8	8	8	8
8	14	14	14	14	12	12	10	10	10	10	8	8	8	8	8	8	8	8	8	
9	14	14	14	12	12	10	10	10.	8	8	8	8	8	8	8	8	8			
10	14	14	14	12	12	10	10	10	8	8	8	8	8	8	8					
11	12	12	12	12	10	10	10	8	8	8	8	8	8	8						
12	12	12	12	12	10	10	8	8	8	8	8	8	8							
13	12	12	12	12	10	10	8	8	8	8	8	8								
14	10	10	10	10	10	10	8	8	8	8	8									
15	10	10	10	10	10	8	8	8	8	8										
16	10	10	10	10	10	8	R	8	8	8										
17	10	10	10	10	10	8	8	8	8			_		-		_	_			-
18	8	8	8	8	8	8	8	8	8											_
19	8	9	8		8			8											_	
20			8	8	0					_	_						$\overline{}$			

NOTE: Wire sizes shown are A.W.G. (American Wire Gauge).

Table courtesy of Thomas Y. Crowell Co.

115 Male D.C. as A.C. Haire Ba

	WIRE SIZE	#14	#12	#10	#8	#6	#4	#2
Watts	Amperes at 115 V.				- *Distances -			
100 200 300 400	.87 1.74 2.61 3.48	510 255 170 125	810 405 270 200	1280 640 430 320	2040 1020 680 510	3250 1625 1080 810	5300 2650 1770 1325	8200 4100 2730 2050
500 750 1000 1500	4.35 6.52 8.69 13.04	100 65 50 35	160 100 80 55	255 170 125 85	410 275 205 140	650 430 325 215	1060 710 530 350	1640 1090 820 550
2000 2500 3000 3500	17.38 21.73 26.07 30.42	25 20 15	40 35 25 22	65 50 40 35	100 80 65 60	160 130 110 90	265 210 180 150	410 350 27: 23:
4000 4500 5000 6000	34.76 39.11 43.46 52.14	***** **** ****	20 15	30 28 25 20	50 45 40 35	80 70 65 55	130 115 105 85	210 170 160 13:
7000 8000 9000 10000	60.83 69.52 78.22 86.91	**** **** ****	****	****	28 25	45 40 35 30	75 65 55 50	11: 100 90 80

*Above figures represent a one-way distance in feet for a 2 wire run. If a 4% voltage drop is permissable, double the distance listed.

If only 1% voltage drop is allowable divide the distance listed by 2.

SINGLE-PHASE 115-Volt A.C. — Use 115 Volt table above.

SINGLE-PHASE 115-Volt A.C. — Use 115 Volt table above for each 115 Volt circuit.

SINGLE-PHASE 230-Volt A.C. — in table above, use Watts column, multiply distances by 4, or use Amperes column, multiply distances by 2.

SINGLE-PHASE 440-Volt circuit — In table above, use Watts column, multiply distances by 16, or use Amperes column, multiply distances by 4.

115 Volt D.C. — Use 115 Volt table above.

230 Volt D.C. — In table above, use Watts column, multiply distances by 4, or use Amperes column, multiply distances by 2.

THREE PHASE SYSTEMS

1. Three-phase 230-volt circuit.—Multiply the distances in the 115 volt table No. 6A by 2½ for the same load. Use the Amps column.

2. Three-phase 440-volt circuit.—Multiply the distances in the 115 volt table No. 6A by 4½ for the same load. Use the Amps column.

3. Single-phase 120-volt circuit.—Use the distances in the 115 volt table No. 6A. Use the Amps column.

TYPICAL RUNNING CURRENT REQUIREMENTS OF MOTORS

HORSE POWER	115 1 Phas	A.C.	230 1 Phas	A.C.	230 3 Phes	A.C.	115 V	D.C.	230 V	D.C.
	c	W	С	W	C	W	C	W	C	W
1/8 1/6 1/4 1/3	2.6 3.2 4.6 6.0	14 14 14 14	1.3 1.6 2.3 3.0	14 14 14 14			3.0 3.8	14 14		
1/2 3/4 1 1-1/2	7.4 10.2 13.0 18.4	14 14 12 10	3.7 5.1 6.5 9.2	14 14 14 14	2.0 2.8 3.5 5.0	14 14 14 14	4.6 6.6 8.6 12.6	14 14 14 12	2.3 3.3 4.3 6.3	14 14 14 14
2 3 5 7-1/2	24.0 34.0 56.0	10 6 4	12,0 17.0 28.0	14 10 8	6.5 9.0 15.0 22.0 27.0	14 14 12 10 8	16.4 24.0 40.0 58.0 76.0	10 10 6 3	8.2 12.0 20.0 29.0 38.0	14 14 10 8 6

C — Full Rated Load Current in amperes (Amperes while starting are MUCH higher)
W — Minimum Wire Size permitted by Code; larger sizes aften required — Check Distance for Valtage Drop.

Drill Size Data

LETTER SIZE DRILLS

Letter	Diam.	Letter	Diam.	Letter	Diam.	Letter	Diam.	Letter	Diam
A	.234	G	.261	L	.290	Q	.332	٧	.377
В	.238	H	.266	M	.295	R	.339	W	.386
C	.242	1	.272	N	.302	S	.348	X	.397
D	.246	J	.277	0	.316	T	.358	Y	.404
E	.250	K	.281	P	.323	U	.368	Z	.413
F	.257								

NUMBER SIZE DRILLS

No.	Dia.	No.	Dia.	No.	Die.	No.	Dia.	No.	Dia.
1	.2280	17	.1730	33	.1130	49	.0730	65	.0350
2	.2210	18	.1695	34	.1110	50	.0700	66	.0330
3	.2130	19	.1660	35	.1100	51	.0670	67	.0320
4	.2090	20	.1610	36	.1065	52	.0635	68	.0310
5	.2055	21	.1590	37	.1040	53	.0595	69	.0292
6	.2040	22	.1570	38	.1015	54	.0550	70	.0280
7	.2010	23	.1540	39	.0995	55	.0520	71	.0260
8	.1990	24	.1520	40	.0980	56	.0465	72	.0250
9	.1960	25	.1495	41	.0960	57	.0430	73	.0240
10	.1935	26	.1470	42	.0935	58	.0420	74	.0225
11	.1910	27	.1440	43	.0890	59	.0410	75	.0210
12	.1890	28	.1405	44	.0860	60	.0400	76	.0200
13	.1850	29	.1360	45	.0820	61	.0390	77	.0180
14	.1820	30	.1285	46	.0810	62	.0380	78	.0160
15	.1800	31	.1200	47	.0785	63	.0370	79	.0145
16	.1770	32	.1160	48	.0760	64	.0360	80	.0135

TAP DRILLS FOR THREADS OF AMERICAN STANDARD FORM

Tap Size (Screw Thread)	Top Drill	Tap Size (Screw Thread)	Tap Drill	Top Size (Screw Thread)	Tap Drill
1/16-64	3/64	11/16-11	19/32	1-1/4- 7	1-7/64
5/64-60	1/16	11/16-16	5/8	1-1/4-12	1-11/6
3/32-48	49	3/4 - 10	21/32	1-3/8- 6	1-7/32
7/64-48	43	3/4 -12	43/64	1-3/8-12	1-19/6
1/8 - 32	3/32	3/4 -16	11/16	1-1/2- 6	1-11/3
9/64-40	32	13/16-10	23/32	1-1/2-12	1-27/6
5/32-32	1/8	7/8 - 9	49/64	1-5/8-5-1/2	1-29/6
11/64-32	9/64	7/8 -12	51/64	1-3/4- 5	1-9/16
13/64-24	20	7/8 -14	13/16	1-7/8- 5	1-11/1
5/16-18	F	7/8 -18	53/64	2 -4-1/2	1-25/3
3/8 - 16	21/64	15/16- 9	53/64	2-1/8-4-1/2	1-29/3
7/16-14	U	1 - 8	7/8	2-1/4-4-1/2	2-1/32
9/16-12	31/64	1 -14	15/16	2-3/8- 4	2-1/8
5/8 -11	17/32	1-1/8 - 7	63/64	2-1/2- 4	2-1/4
5/8 -18	37/64	1-1/8 -12	1-3/64		

DECIMAL EQUIVALENTS

1/64 == .015625 1/32 == .03125 3/64 == .046875	1/4 = .250 17/64 = .265625 9/32 = .28125 19/64 = .296875	1/2 = .500 $33/64 = .515625$ $17/32 = .53125$ $35/64 = .546875$	3/4 = .750 49/64 = .765625 25/32 = .78125 51/64 = .796875
1/16 = .0625	5/16 = .3125	9/16 = .5626	13/16 == .8125
5/64 = .078125	21/64 = .328125	37/64 = .578125	53/64 == .828125
3/32 = .09375	11/32 = .34375	19/32 = .59375	27/32 == .84375
7/64 = .109375	23/64 = .359375	39/64 = .609375	55/64 == .859375
1/8 = .125	3/8 = .375	5/8 = .625	7/8 = .875
9/64 = .140625	25/64 = .390625	41/64 = .640625	57/64 = .890625
5/32 = .15625	13/32 = .40625	21/32 = .65625	29/32 = .90625
11/64 = .171875	27/64 = .421875	43/64 = .671875	59/64 = .921875
3/16 == .1875	7/16 = .4375	11/16 = .6875 $45/64 = .703125$ $23/32 = .71875$ $47/64 = .734375$	15/16 = .9375
13/64 == .203125	29/64 = .453125		61/64 = .953125
7/32 == .21875	15/32 = .46875		31/32 = .96875
15/64 == .234375	31/64 = .484375		63/64 = .984375

Screw and Abrasive Charts

Screw Chart - Drill and Bit Sizes

512	ZE OF SCRE	W	0	1	2	3	4	5	6	7	8	9	10	11	12	14	16	18	20	24
SHANK	Drill number or letter		52	47	42	37	32	30	27	22	18	14	10	4	2	D	1	z	P	V
HOLES	Drill Size nearest fraction		1/10"	%4"	%2"	16411	364°	1/4"	%4**	3/22	11/4/1	%6"°	3/6"	13%4**	1/2"	1/4"	17/64**	1%4"	23/6411	3/6"
PILOT	Hard Wood	Drill number or letter	70	66	56	54	52	49	47	44	40	37	33	31	30	25	18	13	4	1
		Drill Size nearest fraction	1/12"	1/2"	%a**	1600	1/16"	364"	%4"	3/12"	3/2**	364"	364"	1/6"	1/4"	%a"	3/22"	3/6"	13/4/1	1/22
	Soft Wood	Drill number or letter	75	71	65	58	55	53	52	51	48	45	43	40	38	32	29	26	19	1.
		Drill Size nearest fraction	X4**	1/2"	1/2"	%4"	36"	1/16"	16"	1611	%4"	364"	352"	3/2"	364**	364"	%4"	%4°	13/4"	₩6
	JGER BIT F DUNTERSI (By 16ths)	NK	-	-	3	4	4	4	5	5	6	6	6	7	7	8	9	10	11	1:

Abrasive Chart for Use with Portable Sanders

WOODS	Roughing	Finishing	Fine Finishing		
OAK	2½ to 1½A	½ to 1/0G	2/0 to 4/0G		
MAPLE	21/2 to 1 A	½ to 1/0G	2/0 to 4/0G		
BIRCH	2½ to 1A	½ to 1/0G	2/0 to 4/0G		
WALNUT	2½ to 1½A	½ to 1/0G	2/0 to 4/0G		
MAHOGANY	2½ to 1½A	½ to 1/0G	2/0 to 3/0G		
GUM	2½ to 1½A	½ to 1/0G	2/0 to 3/0G		
CURLY MAPLE	2½ to 1½A	½ to 1/0G	2/0 to 4/0G		
CYPRESS	2½ to 1½A	½ to 1/0 A	2/0G		
INDOAKO	11/2A	½ to 1/0G	2/0 to 4/0G		
FIR	1½ to 1A	½ to 1/0G	2/0G		
WHITE PINE	1½ to 1G	1/0G	2/0G		
YELLOW PINE	2 to 11/2SA	1/2G	1/0G		
WILLOW	2A	1/2 to 1/0G	2/0G		
Removing Paint and Varnish	3½ to 2½SA Spaced Grain	A solution of three parts kern sene and one part light lubr cating oil wiped lightly over varnished surface before sand ing will increase belt service			

Symbols: G-Garnet for soft wood. A-Artificial for hard wood. SA-Spaced for paint or varnish.

Comparative Grading Chart for Abrasives

GRAIN SIZE (mesh)	CORUNDUM AND EMERY CLOTH	FLINT PAPER	GARNET, SILICON CARBIDE, ALUMINUM OXIDE		
320 (very fine)			10/0		
240 " "		5/0	7/0		
220 " "		4/0	6/0		
200 (fine)		3/0			
180 "	3/0		5/0		
150 "	2/0		4/0		
136 "		2/0			
120 "			3/0		
110 "	0	0			
100 "			2/0		
90 (medium)	1/2	1/2			
80 "	1		0		
70 "	11/2	1			
60 "			1/2		
56 "	2		-		
50 "		11/2	1		
40 (coarse)	21/2	2	11/2		
36 "			2		
30 "	3	3	21/2		
24 (very coarse)			3		
20 " "			31/2		
16 " "			4		

From "How to Use Portable Power Tools" by Maurice H. Reid, Thomas Y. Crowell Co., Publisher

Tubular Scaffolding

WHAT'S AVAILABLE









Rolling scaffolding...generally is built up into towers of varying heights set on steel casters. One of their prime features is that they straddle aisles, walks or equipment while they are being moved around a job.

Scissor scaffolding . . . can set a workman at a variety of stations. It is generally raised and lowered by pneumatic, hydraulic, and screw jacks. But some types are raised and lowered by hand and held positioned by bolts.

Adjustable work platforms ... are made up of tubular steel scaffolding frames that can be built up or broken down to create a variety of fixed heights. These are engineered for easy erection, dismantling and stacking.

Suspended scaffolding... hangs by cables from autriggers anchored to a building. A hand or power winch raises and lowers them. They most frequently are seen in operation on multi-story buildings.

HOW TO HANDLE THEM SAFELY

- Make certain they have sufficient underpinning in addition to base plates when erecting them on soft ground.
- Compensate for uneven ground with adjustable base plates.
- · Always level and plumb scaffolding thoroughly.
- Don't force braces to fit. Badly fitting braces usually indicate scaffolding isn't level.
- Check the cam lever on braces to make certain it is in a "down" position.
- Prevent scaffold structure from racking with horizontal braces.
- Check stack locks at the base of each panel leg to see that it engages holes in the stack coupling of panels.

- Anchor running scaffolding every 30 ft. of length and every 25 ft. of height.
- · Regardless of scaffold height, install guard rails.
- Don't let workmen climb cross braces. Provide scaffold ladders when not using ladder panels.
- · Make certain scaffold planking is sound.
- . Don't tie putlogs together on spans longer than 21 ft.
- Handle rolling towers with care. Guy them when in use, lock caster brakes, and move them with care.
- Don't shore concrete decks with scaffolding until you first determine what loads and stresses are involved.
- · Keep all rolling equipment in good repair.
- · Discard or repair damaged or deteriorating scaffolding.
- · Follow your local safety codes and regulations.

GENERAL SPECIFICATIONS

Elyria grade steel is the metal most commonly used in tubular scaffolding. Other steels used are aluminum, magnesium, mild and carbon steels.

Tubing for scaffolding generally measures 1.625 in, in diameter. This standardized size permits the stacking of scaffolding made by different manufacturers.

The scaffolding generally is made up in panel frames of 5-ft. widths unless they are designed for some special purpose. The 5-ft. panel can carry six 2x10-in. edge-planed planks between its leg posts, to make up a standard-width scaffold platform. Panel heights vary from 1-ft. extension members to 10-ft.-high walk-through members. Standard panels measure 5 ft. wide and 6½ ft. high, though 4x4½-ft. frames are available. Usually, frame heights graduate in 1-ft. increments except where they are made for special purposes.

Governing frame spacing and brace lengths are the plank spans. Considered most practical and economic spacing: 7 ft.—when 2-in. planks are used. Shorter spacing is usually reserved for shoring and heavy loading. Employing 3-in. planks makes longer spacing of frames possible.

Bracing that goes into scaffolding can be both single and double. Staggering diagonal bracing between frames omits double bracing and serves light loading purposes. Double bracing forces leveling of frames, offers greater stiffness, and will serve as single tower frames, shoring, and elevator frames.

Inserting casters under the legs of rigid scaffold frames converts the structure into a rolling tower generally employed for interior work, concrete decks, and special shoring. Such towers will also be found in masonry and mechanical installations.



Turn more jobs into low-cost jobs with new John Deere 1010 Wheel Power

Now ready to roll onto your building or earthmoving jobs, new John Deere Wheel Units are powered right, priced right for economical work.

New "1010" wheel tractors are engineered for all-around service, designed as the low-cost answer to earthmoving, material handling, landscaping and utility work. New 40 h.p. four-cylinder gasoline and Diesel engines operate efficiently through the full throttle range for top performance on any job. Deere equipment, including loaders, backhoes, rear blades, landscape tools and mowers provides full versatility.

The John Deere "1010" Wheel

Loader is a compact, fast-handling unit well suited to general building work. Five forward speeds and power steering insure easy handling, full maneuverability. Turning radius is only 8 feet 8 inches.

Your John Deere dealer will be glad to demonstrate and give you the information you need on John Deere's "New Generation of Power." He's ready to explain the advantages of the John Deere Credit Plan and long-term leasing, too. Contact him through the classified telephone directory or write today to John Deere, 3300 River Drive, Moline, Illinois.



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Portable power for municipal maintenance equipment; tools, floodlighting.



Standby for critical processes in chemical, ceramic, and other manufacturing plants.



Line repair power and standby for electric, telephone, and gas utilities.



Provides power for lights, cooling, fudge heaters, fans for manufacturing ice cream vans.



Critical electric power for Civil Defense communications and lighting.

Onan Electric Plant that have never been used before

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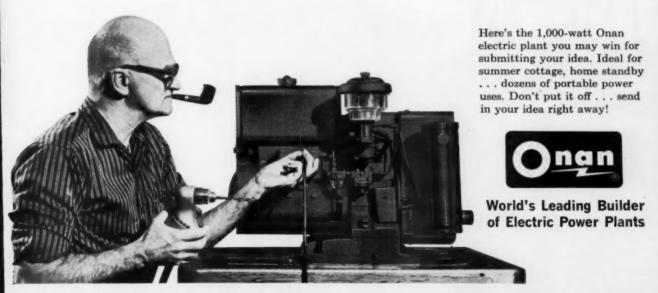
We'll give a 1,000-watt air-cooled Onan* (shown below) for each of the ten best applications for an Onan plant that have never been used before. Your idea can apply to any size or type Onan plant—from 500 watts to 230 kw—gasoline or diesel, air or water cooled.

In 1926, when Onan pioneered with the "Ten-Lite"—a 250-watt d.c. plant—there was a clear-cut need: enough power to burn ten electric lamps in hundreds of thousands of homes without electric utility service.

Today, this market is virtually non-existent in fhe United States. But hundreds of new uses undreamed of in 1926 have increased the need for electric generator sets each year. Thus, because men with ideas continue to find new uses for packaged electric power, Onan continues to build more plants than any other manufacturer.

Quite often, we never know who had the original idea for a new application. And, we're sure, Onan plants are used today in ways we've never heard about. If you have an idea for a new use, it may be helpful to you to see Onan plants at your local distributor. He's listed in the Yellow Pages in every major city. Or, write Onan for free literature.

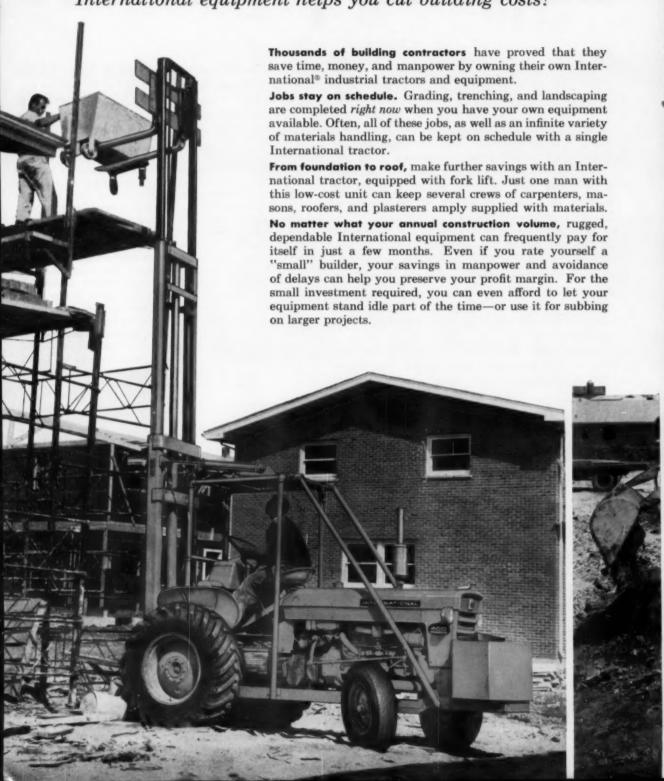
*You may submit as many ideas as you wish, but no more than one Onan plant will be awarded to an individual. There are no restrictions on form of entry ... you may submit photographs, sketches or a written statement of any length you desire. Onan will judge all entries on the basis of originality, practicality and commercial utility, and decisions of the judges will be final. If the same suggestion or similar suggestions are made by more than one entrant, the first one submitted, according to the postmark, will be eligible for the prize. Winners will be notified on or before July 15, 1961. Entries must be mailed to "New Uses Contest," address below, and must be received not later than June 15, 1961. All ideas submitted become the property of Onan and, whether or not the entries receive an award, may be used commercially by Onan in any way it sees fit with or without acknowledgment of the originator. No entries can be returned.



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Clam on to objects too big for a conventional bucket with the International Drott T-340 Four-in-One. It combines clamshell, bucket, bulldozer, and scraper in one ¾-yard machine for little more than the price of a conventional loader.



Grade building sites, backfill, landscape, level for slabs, streets, sidewalks, and driveways with the 47 hp T-340 and big 85-inch Bullgrader[®]. Blade angles and tilts under full hydraulic control from the tractor seat, on-the-go.







Do more with your front-end loader! Switch from bucket . . . to crane . . . to fork lift

Nothing beats a front-end loader for all around convenience. Use the bucket to carry loose or bulky materials, such as pipe, as well as for digging, grading, and loading. Big, broad-base pneumatic tires carry the tractor over rutted or muddy terrain. Then,

get still more service out of your investment—simply remove the bucket and replace with crane or fork lift in five minutes or less. Same lift arms are used for all attachments. Concrete bucket and tilt and angle blades are also available.



		Front		FC	RK LIFT
Tractor Model	Max. Engine HP*	loader lift capacity, lb.	Backhoe Digging Depth	Capacity, lb.	Full lift height feet
B-275					
Diesel	38	1,600	10 ft.	-	-
1-240	40	1,300	10 ft.	-	-
1-340#	47	1,600	10 ft. 12½ ft.	4,000†	101/2, 14, 211/2
T-340 / Crawler	47	3,500	10 ft.	-	-
1-460#	61	2,500	121/2 ft. 131/4 ft.		10½, 14, 21½ 12 or 14
1-5604	72.5	3,000	1316 ft.	6,000	12 or 14
10884	95	4,000	_	_	-

^{*}Corrected to standard conditions

Avoid costly under- or over-powering. Your IH dealer offers six tractor power sizes, with matched equipment, priced to fit your jobs. Ask for an on-the-job demonstration!



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^{12,500} lb. above 15 feet Diesel engine available



SEEN IN ALL THE WORST PLACES

PLACES

They keep showing up in places most trucks can't get to because it takes an awful lot to stop these sure-footed Chevy four-wheel-drive models! Where the job calls for the mobility of a mountain goat teamed with the stamina of a mule, you'll find no finer way to get your work done. And for 1961 the Chevrolet 4-wheel drive lineup is a full dozen models long. You can pick from a wide selection—one that's sure to include the best answer to your toughest traction-plus requirement!

Put any one of these 4-wheel drive Chevies on any job—then watch it dig in and go! Come what may in the way of mud, snow, sand, loose gravel, creek bottoms, swampland or freshly plowed ground, you can rest assured that the extra bite of up to double traction—plus stump-jumping road clearance—will get you through every time.

And you'll like the way a Chevy 4x4 rolls down the highway in smooth 2-wheel drive, ready to give you 4-wheel traction at the flick of a lever, the moment you need it. You'll appreciate the no-clutch shifting ease of the transfer case (whether moving or standing still) and the extra versatility that's yours with a choice of 4-wheel direct or underdrive.

If you prefer the extra snap of spirited V8 power, it's yours at nominal extra cost in any model. Also available at extra cost are heavy-duty 3-speed and 4-speed transmissions and a wide choice of traction tires. You can tailor your Chevy 4 x 4 to fit your needs exactly. Get the full details and turn your traction problems over to Chevy—the traction champ of them all!... Chevrolet Division of General Motors, Detroit 2, Michigan.

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Model Loed K1434 1400 ib. K1534 1300 ib. K2534 2950 ib.	Body Length 61/2' 8' 8'	Model K1404 K1504 K2504	Max. Load 1450 lb, 1350 lb, 3050 lb.	Body Length 614' 8' 8'	Model K1403 K1503 K2503	Max. Load 1900 lb. 1850 lb. 3500 lb.	Wheel- base 115" 127" 127"	Model K1405 K1406 K1416	Max. Load 1300 lb. 1000 lb. 1000 lb.	Body Type 7½ Panel Carryall (panel type rear doors) Carryall (tailgate and liftgate)
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1961 CHEVROLET STURDI-BILT TRUCKS CHEVROLET

How to

TRIM YOUR COSTS



How many times have you wished you could reduce wasted-hours of costly hand-labor...eliminate overtime and still keep jobs on schedule? Now you can cut these costs by mechanizing your digging, loading, backfilling, grading and materials-handling with an economy-priced Case 430 Utility Loader. One man and a Case 430 outworks a crew of hand laborers... speeds building and clean-up, boosts productivity of skilled men by always keeping building materials within easy reach.

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Try a Case 430 on your work. See how it mechanizes *more* of your materials-handling for lower "work" costs...saves expenses on a wide variety of dirt work. Call your Case Dealer for free demonstration. Or write for full information to J. I. Case Co., Racine, Wis., Dept D1401.

*Installment payment after average down payment or trade-in, with gasoline engine, 11 cu ft bucket, f.e.b. factory. Price subject to change without notice.



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8114 Universal 12-inch Builders Level . . . \$143.50 Internal rack-and-pinion focusing, 26-power telescope. Machine-divided 3-11/16" horizontal circle. Vernier reads to 5 minutes. Hardwood carrying case.



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(Continued from page 290)

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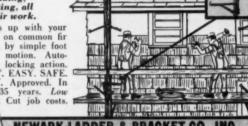
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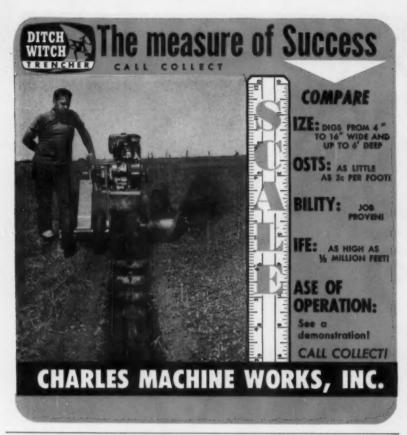
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(Continued from page 304)

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Contractor Saves 16 Hours per Slab On New Housing Project



1. Making first pass with 24 ft. 8 in. Stow vibrating screed. 16 man hours per slab saved by Major Building Co.



2. 4-inch slump concrete is screeded. Note the termite shield at edge of slab.



3. $1\frac{1}{2}$ to 2 hours after screeding, Stow G-42 Roto-Trowel used to float and finish floors



 Concrete consolidated in side forms with Stow DU midget vibrator.

ANSONIA, CONN. Major Building Company's Ted Ruderman needed a way to cut costs of finishing concrete slabs for his pre-fab housing projects. The old method required installation of screed supports, (1½ hours of carpenter labor) and dividing each slab into three sections. The slabs were then poured, one at a time, and struck off by working two-by-fours back and forth across the slab sections.

Ruderman figured a vibrating screed would speed up the whole operation, and provide a better, smoother slab. On this job, he planned all slabs 24'8" wide, so that one screed beam would work on all, and arranged for STOW Manufacturing Company to furnish a 24'8" Model JS screed . . . with the beam notched at the ends to clear a termite guard around the outside of slab. No screed supports were necessary, since screed rollers rode on the concrete side walls. Ruderman used a STOW DU Midget vibrator to consolidate the concrete in the side forms.

Using 4" slump concrete, with nine gallons of retarder per load, Ruderman poured the concrete 4" thick, had two men raking ahead of the screed. Using this method, each 24'8" x 36'8" slab was prepared, spread, and screeded in just one hour! Later the floating and finishing job was done by a STOW G-42 Roto-Trowel.

This reduced production time saved 16 man hours per slab! And the smoother, true-to-grade finish provided by the STOW screed enabled carpenters to set up room partitions much faster, saving even more time!

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STOW screeds are available complete, cut to any desired length. Also available, is the STOW package assembly (without beam, for contractors who want to build their own beams) which consists of 2½ HP vibrating unit, brackets for engine mounting, end rollers, and handles

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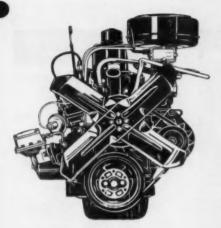
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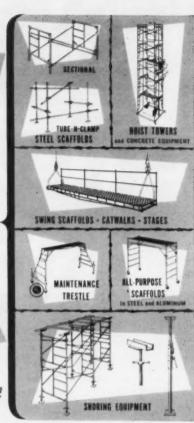


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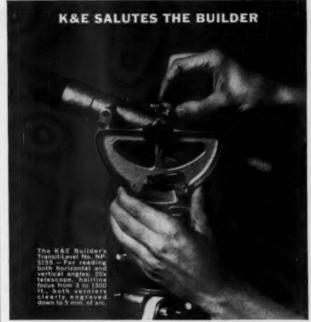
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(Continued on page 314)



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(Continued from page 313)

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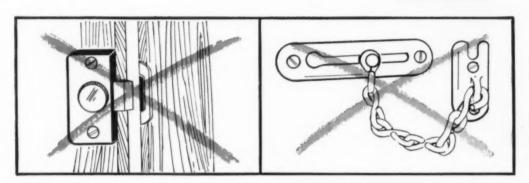
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